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NEUTRON CROSS SECTIONS FOR U²³⁵

by

G. D. Joanou
M. K. Drake

prepared for

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Contract SNPC-27

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JOHN JAY HOPKINS LABORATORY FOR PURE AND APPLIED SCIENCE

P.O. BOX 608 SAN DIEGO 12, CALIFORNIA

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TOPICAL REPORT

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December 10, 1964

Contract SNPC-27

Technical Management
NASA-Lewis Research Center
Advanced Development and Evaluation Division
D. Bogart

GENERAL ATOMIC
DIVISION OF
GENERAL DYNAMICS

JOHN JAY HOPKINS LABORATORY FOR PURE AND APPLIED SCIENCE

P.O. BOX 608, SAN DIEGO, CALIFORNIA 92112

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I. INTRODUCTION

A revised set of neutron cross sections has been prepared for U^{235} . These data are based upon experimental data whenever possible.

The compiled and evaluated data have been incorporated into the GAM-II⁽¹⁾ slowing down program and into the GATHER-II⁽²⁾ thermalization program. The literature survey associated with this report is believed to be complete to November 1964.

II. DISCUSSION

The possible neutron reactions with U^{235} in the energy range 0.001 eV to 15.0 MeV are listed in Table 1.⁽³⁾

2.1 2200 M/SEC CROSS SECTIONS

Table 2 shows the results of several analyses of the most probable value of the 2200 m/sec cross sections of U^{235} . The set of thermal cross sections recommended in this report are the same as those given in an evaluation by Goodjohn and Wikner.⁽⁴⁾

Table 1
NEUTRON REACTIONS WITH U^{235} (0.001 eV to 15.0 MeV)

<u>Reaction</u>	<u>Threshold (MeV)</u>
n, 2n	5.26
n, 3n	12.06
n, p	0.61
n, np	6.79
n, d	4.55
n, nd	9.60
n, t	3.31
n, nt	10.03
n, He^3	4.54
n, nHe^3	9.63
n, α	-
n, $n\alpha$	-
n, γ	-
n, f	-

Table 2
2200 M/SEC CROSS SECTIONS OF U²³⁵

	<u>Sher and Felberbaum⁽⁶⁾</u>	<u>Leonard⁽⁵⁾</u>	<u>Goodjohn and Wikner⁽⁴⁾</u>
σ_T	694 ± 3	694 ± 4	(699.6)
σ_n	(12.0)	16 ± 3	17.59
σ_{abs}	682.0 ± 2.6	678 ± 5	682 ± 3
σ_f	582.2 ± 2.2	579 ± 6	581 ± 6
σ_γ	(99.8)	99 ± 4	(101)
α	0.171 ± 0.003	0.172 ± .007	0.174 ± .010
n	2.074 ± .006	2.077 ± .010	2.070 ± .02
v	2.430 ± 0.009	2.434 ± .019	2.43

2.2 TOTAL CROSS SECTIONS

Most of the direct measurements of the total cross sections of U²³⁵ have been reported in References 7 and 8. A more recent series of measurements have been made by Brooks and Jolly^(9, 10, 11). These measurements cover the energy range from 0.03 to 100 eV and show excellent resolution. Table 3 shows the sets of total cross section data available for U²³⁵. Data were taken up to 300 eV by Brooks and Jolly; however, the data above 100 eV are not available at the present time. Figures 1 through 17 show the available experimental data for the total cross section of U²³⁵ in the energy range below a 100 eV. The recommended total cross sections below 100 eV have been heavily weighted toward Brooks' and Jolly's data. Above 100 eV the total cross section was obtained by adding the non elastic and the elastic cross sections. The resulting data are shown in Table 6.

2.3 FISSION CROSS SECTIONS

After a careful study of the fission cross section measurements in the energy range 0.001 to 0.4 eV, the fission cross sections recommended by Goodjohn and Wikner⁽⁴⁾ still seem to be appropriate. In the energy range from 0.4 to 5.0 eV, several sets of fission cross section data have become available since the publication of References 7 and 8. Among these, are the data reported by Bowman *et al.*⁽²⁾, Brooks and Jolly,^(9, 10, 11) and Michaudon.⁽²²⁾ The data considered for this evaluation are shown in Figures 18 through 27. The fission cross section was obtained on the

Table 3

 U^{235} TOTAL CROSS SECTION MEASUREMENTS

<u>Set No.</u>	<u>Experimenter</u>	<u>Lab</u>	<u>Energy Range</u>	<u>Remarks</u>
T-1	Yeater ⁽¹²⁾	KAPL	213 to 7856 eV	Data obtained from BNL Sigma Center
T-2	Simpson, et al. ⁽¹³⁾	MTR	9.11 to 17.99 eV	
T-3	Nikitin, et al. ⁽¹⁴⁾	USSR	0.01 to 86.0 eV	
T-4	Shore & Sailor ⁽¹⁵⁾	BNL	0.0877 to 10.0 eV	
T-5	Melkonian, et al. ⁽¹⁶⁾	Col	0.000818 to .0818 eV	
T-6	Leonard ⁽¹⁷⁾	Han	0.00253 to .10 eV	
T-7	Bollinger ⁽¹⁸⁾	ANL	0.00456 to .561 eV	
T-8	Lynn & Pattenden ⁽¹⁹⁾	Harwell	0.0057 to .188	
T-9	Block, et al. ⁽²⁰⁾	Oak Ridge	0.0181 to .1589	
T-11	Brooks & Jolly ⁽⁹⁾	Harwell	0.03 to 300 eV	Data obtained from Jolly

basis of three sets of measurements, those of Shore and Sailor,⁽¹⁵⁾ Brooks and Jolly,^(9, 10, 11) and Michaudon.⁽²²⁾ The latter two sets show particularly good resolution in this energy range. The results reported by Bowmann et al.,⁽²¹⁾ not only show somewhat poorer resolution, but also give very high cross sections across the 2.04 eV resonance.

Another set of fission cross section measurements made in the energy range from 0.4 to 5 eV, have been reported by Ignat'ev et al.⁽²³⁾ with analysis and discussion by Kirpichnikov, et al.⁽²⁴⁾ Although the pointwise data could not be obtained, data was taken from the published curves and good agreement was found when these data were compared with data of Brooks and Jolly⁽¹¹⁾ and Shore and Sailor.⁽¹⁵⁾ This comparison is given in Figures 26, 27, and 30.

In the energy range from 5 to 10 eV, agreement between the various sets of data was found to be considerably worse than at lower energies. The resolution shown in Brooks' and Jolly's⁽¹¹⁾ data seems to be very good, but the low cross section shown by these data in the energy range from 9 to 10 eV is somewhat questionable. Bowmann's⁽²¹⁾ data show some real differences, other than resolution problems, in this energy range. Their fission cross section was found to be about 30% low when compared with other measurements, across the 8.8 eV, resonance.

The fission cross sections in the energy range between 10 to 100 eV show considerable difference in both resolution and magnitude. The sets of data that were considered were the older Saclay data by Michaudon et al. (25) the data of Bowmann et al., (21) and the data of Brooks and Jolly. (11) The latter set, again, show better resolution but slightly lower fission cross section in this energy range than do the other two sets. The experimental fission cross sections are shown in Figures 31 through 37 for the energy range from 5 to 100 eV. Table 4 lists the sets of fission cross section measurements used in this evaluation.

Between 100 eV and 0.01 MeV the fission cross section was taken from Reference 32. Above 0.01 MeV the data was taken from smooth curves down through the data of References 33-47). Most of the available data is shown in Figures 38-50.

The resulting evaluated data in the energy range 0.001 eV to 15 MeV have been tabulated in Table 6.

Table 4
 ^{235}U FISSION CROSS SECTION MEASUREMENTS

<u>Set No.</u>	<u>Experimenter</u>	<u>Laboratory</u>	<u>Energy Range</u>	<u>Remarks</u>
F-1	Leonard ⁽²⁶⁾	Hanford	0.00269 to .975 eV	Data obtained from Sigma Center
F-2	Price & Pattenden ⁽²⁵⁾	Harwell	0.20 to 1.98 eV	
F-3	Michaudon ⁽²²⁾	Saclay	0.37 to 9.94 eV	
F-4	Michaudon ⁽²⁵⁾	Saclay	7.2 to 21.0 eV	
F-5	Bowmann ⁽²¹⁾	UCRL	0.0375 to 60 eV	
F-13	Adamchuk et al. ⁽²⁸⁾	USSR	0.0117 to 77 kv	
F-14	Shore & Sailor ⁽¹⁵⁾	BNL	0.1001 to 10 eV	
F-15	Yeater et al. ⁽²⁹⁾	KAPL	5.32 to 1970	
F-16	Bollinger ⁽³⁰⁾	ANL	0.00377 to .949	
F-17	Deruytter ⁽³¹⁾	Belgium	0.0117 to .1186	
F-22	Brooks & Jolly ⁽¹¹⁾	Harwell	0.035 to 100 eV	Data obtained from Brooks
F-24	Ignat'ev ⁽²³⁾	USSR	0.02 to 20 eV	Data obtained from three published curves
F-25	Ignat'ev ⁽²³⁾	USSR	0.02 to 20 eV	"
F-26	Ignat'ev ⁽²³⁾	USSR	0.02 to 20 eV	"

2.4 n, γ CROSS SECTION

The absorption cross section (capture plus fission) was obtained by subtracting an estimated scattering cross section from the evaluated total cross section. In the energy range from .001 to 5 eV, the scattering cross section, predicted by Vogt's⁽⁴⁸⁾ multilevel fit to the experimental total and fission data of Shore and Sailor,⁽¹⁵⁾ has been used. This scattering cross section was found to be in fair agreement with the few measured cross section in this energy range. Between 5 eV and 100 eV the scattering cross section evaluated by Schmidt⁽³²⁾ has been used. The fission cross section was then subtracted from the absorption cross section in order to obtain the capture cross section. To check the consistency of these evaluated data, α and η were calculated as a function of energy and compared with the direct η measurements of Brooks and Jolly⁽¹¹⁾ along with the direct measurements by Ignat'ev.⁽²³⁾ The η measurements are shown in Figures 51-60. In general, good agreement was obtained.

The alpha measurements reported by de Saussure et. al.,⁽⁴⁹⁾ over the energy range 2 eV to 2 keV appear to be much too high between the resonances to fit into any consistent evaluation of the fission and capture cross sections over this energy range. Hence, these data were ignored in this evaluation.

The high energy alpha measurements of Hopkins and Diven⁽⁵⁰⁾ and Weston et al.,⁽⁵¹⁾ were extrapolated to an alpha value of 0.5 at 300 eV. These data are shown in Table 5. Although several other measurements of α in this energy region exist⁽⁵²⁻⁵⁵⁾ it was decided to discard these data in favor of this more recent work. Alpha was assumed to be constant with a value of 0.5 between 100 and 300 eV. The capture cross section was then calculated by $\sigma_{n,\gamma}(E) = \alpha(E) \sigma_f(E)$.

The resulting evaluated data have been tabulated and are displayed in Table 6.

2.5 MEAN NUMBER OF NEUTRONS PER FISSION

All of the existing experimental information on the mean number of neutrons per fission has been plotted in Figure 61.⁽⁵⁶⁻⁸⁴⁾ These data old and new have been normalized to a \bar{v} at a thermal energies of 2.43 by Parker.⁽⁸⁴⁾ The recommended variation of \bar{v} with energy is heavily weighted toward the results of References 56, 57, 58 since it is felt that these are probably the most accurate. The recommended variation with energy is as follows:

$$\bar{v} = 2.43 + 0.1E \quad E \leq 2.0 \text{ MeV}$$

$$\bar{v} = 2.43 + 0.15E - .1 \quad E \geq 2.0 \text{ MeV}$$

Table 5
EXPERIMENTAL VALUES OF α FOR U^{235} ABOVE 10 KEV

<u>E(keV)</u>	<u>α</u>	<u>Reference</u>
12. 3 \pm 0. 8	0. 368 \pm 0. 040	53
14. 0 \pm 0. 9	0. 364 \pm 0. 040	53
17. 5 \pm 1. 2	0. 354 \pm 0. 040	53
20. 5 \pm 1. 5	0. 347 \pm 0. 031	53
25. 5 \pm 2. 0	0. 347 \pm 0. 031	53
29. 4 \pm 10. 0	0. 348 \pm 0. 039	53
30. 0 \pm 10. 0	0. 372 \pm 0. 026	53
30. 0 \pm 10. 0	0. 376 \pm 0. 036	52
32. 5 \pm 2. 7	0. 339 \pm 0. 030	53
42. 6 \pm 3. 7	0. 352 \pm 0. 030	53
56. 0 \pm 5. 5	0. 333 \pm 0. 030	53
60. 0 \pm 15	0. 224 \pm 0. 017	52
64. 0 \pm 15	0. 315 \pm 0. 060	53
70. 0 \pm 7. 8	0. 313 \pm 0. 025	53
96. 0 \pm 10. 0	0. 304 \pm 0. 025	53
115. 0 \pm 11. 5	0. 264 \pm 0. 030	53
136. 0 \pm 10. 5	0. 251 \pm 0. 030	53
160. 0 \pm 10. 0	0. 226 \pm 0. 023	53
175. 0 \pm 25	0. 224 \pm 0. 017	52
185. 0 \pm 9. 7	0. 189 \pm 0. 028	53
205. 0 \pm 9. 5	0. 182 \pm 0. 025	53
240. 0 \pm 9. 3	0. 186 \pm 0. 023	53
250. 0 \pm 50	0. 213 \pm 0. 016	52
295. 0 \pm 9. 1	0. 175 \pm 0. 023	53
350. 0 \pm 9. 0	0. 139 \pm 0. 022	53
390. 0 \pm 8. 8	0. 136 \pm 0. 021	53
400. 0 \pm 90	0. 152 \pm 0. 011	52
450. 0 \pm 8. 7	0. 132 \pm 0. 019	53
540. 0 \pm 8. 6	0. 122 \pm 0. 018	53
600. 0 \pm 8. 5	0. 087 \pm 0. 018	53
600. 0 \pm 76	0. 143 \pm 0. 011	52
670. 0 \pm 8. 4	0. 097 \pm 0. 018	53
750. 0 \pm 70	0. 120 \pm 0. 010	52
900. 0 \pm 63	0. 101 \pm 0. 011	52
1000. 0 \pm 58	0. 087 \pm 0. 008	52

Table 6
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
0.001	3647.3	18.33	3629.0	3026.0	603.0	0.1993	2.026
0.002	2629.9	17.95	2612.0	2205.0	407.0	0.1846	2.051
0.004	1843.8	17.77	1826.0	1551.0	275.0	0.1773	2.064
0.005	1641.7	17.75	1624.0	1380.0	244.0	0.1768	2.065
0.007	1379.7	17.73	1362.0	1158.0	204.0	0.1762	2.066
0.008	1287.7	17.73	1270.0	1080.0	190.0	0.1759	2.067
0.010	1148.7	17.72	1131.0	962.0	169.0	0.1756	2.067
0.015	929.68	17.68	912.0	776.0	136.0	0.1753	2.068
0.02	796.63	17.63	779.0	663.0	116.0	0.1750	2.068
0.0253	699.59	17.59	682.0	581.0	101.0	0.1721	2.073
0.03	636.56	17.56	619.0	528.0	91.0	0.1723	2.073
0.04	539.49	17.49	522.0	447.0	75.0	0.1678	2.081
0.05	473.43	17.43	456.0	390.0	66.0	0.1692	2.078
0.06	424.38	17.38	407.0	348.0	59.0	0.1695	2.078
0.065	404.34	17.34	387.0	331.0	56.0	0.1692	2.078
0.07	387.32	17.32	370.0	316.0	54.0	0.1709	2.075
0.075	370.29	17.29	353.0	302.0	51.0	0.1689	2.079
0.08	356.27	17.27	339.0	290.0	49.0	0.1690	2.079
0.085	344.24	17.24	327.0	279.0	48.0	0.1720	2.073
0.09	332.21	17.21	315.0	269.0	46.0	0.1710	2.075
0.095	321.18	17.18	304.0	259.0	45.0	0.1737	2.070
0.100	310.16	17.16	293.0	250.0	43.0	0.1720	2.073
0.12	280.05	17.05	263.0	223.0	40.0	0.1794	2.060
0.14	258.95	16.95	242.0	204.0	38.0	0.1863	2.048
0.16	244.84	16.84	228.0	190.0	38.0	0.2000	2.025
0.18	233.72	16.72	217.0	179.0	38.0	0.2123	2.004
0.20	229.61	16.61	213.0	174.0	39.0	0.2241	1.985
0.22	234.51	16.51	218.0	176.0	42.0	0.2386	1.962
0.23	236.47	16.47	220.0	177.0	43.0	0.2429	1.955
0.24	240.43	16.43	224.0	179.0	45.0	0.2514	1.942
0.25	245.4	16.40	229.0	183.0	46.0	0.2514	1.942
0.26	253.39	16.39	237.0	189.0	48.0	0.2540	1.938
0.27	256.38	16.38	240.0	192.0	48.0	0.2500	1.944
0.28	258.39	16.39	242.0	193.2	48.8	0.2526	1.940
0.29	255.4	16.40	239.0	191.9	47.1	0.2454	1.951
0.30	251.42	16.42	235.0	189.4	45.6	0.2408	1.958
0.31	242.44	16.44	226.0	183.7	42.3	0.2303	1.975

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
0.32	231.45	16.45	215.0	176.3	38.7	0.2195	1.993
0.33	220.44	16.44	204.0	168.0	36.0	0.2143	2.001
0.34	207.42	16.42	191.0	159.1	31.9	0.2005	2.024
0.35	196.38	16.38	180.0	150.4	29.6	0.1968	2.030
0.36	186.37	16.37	170.0	142.3	27.7	0.1963	2.034
0.38	167.29	16.29	151.0	127.5	23.5	0.1843	2.052
0.40	157.22	16.22	135.5	115.5	20.0	0.1733	2.071
0.405	148.5	16.20	132.3	113.0	19.3	0.1705	2.076
0.41	144.58	16.18	128.4	110.0	18.4	0.1677	2.081
0.414	142.67	16.17	126.5	108.5	18.0	0.1660	2.084
0.415	142.06	16.16	125.9	108.0	17.9	0.1655	2.085
0.42	138.8	16.15	122.7	105.5	17.2	0.1627	2.090
0.425	135.13	16.13	119.0	102.5	16.5	0.1605	2.094
0.43	132.51	16.11	116.4	100.5	15.9	0.1582	2.098
0.435	131.0	16.10	114.9	99.4	15.5	0.1560	2.102
0.44	128.68	16.08	111.7	96.8	14.9	0.1538	2.106
0.445	125.87	16.07	109.8	95.3	14.5	0.1517	2.110
0.45	123.56	16.06	107.5	93.5	14.0	0.1500	2.113
0.455	121.43	16.03	105.4	91.8	13.6	0.1481	2.116
0.46	119.82	16.02	103.8	90.5	13.3	0.1469	2.119
0.465	118.2	16.00	102.2	89.2	13.0	0.1457	2.121
0.47	116.09	15.99	100.1	87.5	12.6	0.1440	2.124
0.475	114.27	15.97	98.3	86.0	12.3	0.1430	2.126
0.48	112.96	15.96	97.0	85.0	12.0	0.1412	2.129
0.485	111.65	15.95	95.7	84.0	11.7	0.1393	2.133
0.49	110.34	15.94	94.4	83.0	11.4	0.1373	2.137
0.495	109.13	15.93	93.2	82.0	11.2	0.1366	2.138
0.50	107.82	15.92	91.9	81.0	10.9	0.1346	2.142
0.52	103.86	15.86	88.0	78.0	10.0	0.1282	2.154
0.532	101.92	15.82	86.1	76.5	9.60	0.1255	2.159
0.54	100.13	15.80	84.33	75.0	9.33	0.1244	2.161
0.55	97.33	15.77	81.56	72.4	9.16	0.1265	2.157
0.56	96.48	15.73	80.75	71.8	8.95	0.1247	2.161
0.575	93.2	15.70	77.5	69.0	8.50	0.1232	2.163
0.58	92.7	15.78	76.92	68.5	8.42	0.1229	2.164
0.59	91.54	15.70	75.84	67.6	8.24	0.1219	2.166
0.60	90.43	15.65	74.78	66.7	8.08	0.1211	2.167
0.62	87.8	15.60	72.2	64.4	7.8	0.1211	2.167

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	σ	T
0.625	87.32	15.58	71.74	64.0	7.74	0.1209	2.168
0.64	85.53	15.55	69.98	62.4	7.58	0.1215	2.167
0.66	83.42	15.53	67.89	60.5	7.39	0.1224	2.165
0.68	81.71	15.47	66.24	59.0	7.24	0.1227	2.164
0.683	81.44	15.46	65.98	58.8	7.18	0.1227	2.166
0.70	80.34	15.42	64.92	57.8	7.12	0.1232	2.163
0.72	79.10	15.37	63.73	56.7	7.03	0.1240	2.162
0.74	78.06	15.32	62.74	55.8	6.94	0.1244	2.161
0.75	77.61	15.30	62.31	55.4	6.91	0.1247	2.161
0.76	77.15	15.27	61.88	55.0	6.88	0.1251	2.160
0.78	76.26	15.24	61.02	54.2	6.82	0.1258	2.158
0.80	75.81	15.21	60.6	53.8	6.80	0.1260	2.158
0.82	76.20	15.17	61.03	54.2	6.83	0.1260	2.158
0.84	76.45	15.13	61.32	54.4	6.92	0.1272	2.156
0.85	76.69	15.11	61.58	54.6	6.98	0.1278	2.155
0.86	77.02	15.08	61.94	54.9	7.04	0.1282	2.154
0.876	77.75	15.06	62.69	55.5	7.19	0.1295	2.151
0.88	77.98	15.04	62.94	55.7	7.24	0.1300	2.150
0.89	78.49	15.02	63.47	56.1	7.37	0.1314	2.148
0.90	79.02	15.01	64.01	56.5	7.51	0.1329	2.145
0.91	80.29	15.00	65.29	57.6	7.69	0.1335	2.144
0.92	81.06	14.98	66.08	58.2	7.88	0.1354	2.140
0.93	82.98	14.97	67.01	58.9	8.11	0.1378	2.136
0.94	82.9	14.94	67.96	59.6	8.36	0.1403	2.131
0.95	84.03	14.91	69.12	60.5	8.62	0.1425	2.127
0.96	85.33	14.88	70.45	61.54	8.91	0.1448	2.123
0.97	87.58	14.86	72.72	63.44	9.28	0.1463	2.120
0.98	89.88	14.84	75.04	65.34	9.70	0.1485	2.116
0.99	91.52	14.82	77.7	67.53	10.17	0.1506	2.112
1.00	93.86	14.81	79.05	68.64	10.41	0.1517	2.110
1.02	100.99	14.79	84.2	72.49	11.71	0.1615	2.092
1.025	107.48	14.78	89.7	77.0	12.7	0.1649	2.086
1.04	109.46	14.76	94.7	80.3	14.4	0.1793	2.060
1.05	113.54	14.74	98.8	82.8	16.0	0.1932	2.036
1.06	118.25	14.75	103.5	85.3	18.2	0.2134	2.003
1.07	124.36	14.76	109.6	88.8	20.8	0.2342	1.969
1.08	131.07	14.77	116.3	92.8	23.5	0.2532	1.939
1.09	137.08	14.78	122.3	96.0	26.3	0.2740	1.907
1.10	144.8	14.80	130.0	101.0	29.0	0.2871	1.888
1.11	149.35	14.85	134.5	103.0	31.5	0.3058	1.861

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
1.12	152.7	14.90	137.8	104.0	33.8	0.3250	1.834
1.125	154.73	14.93	139.8	105.0	34.8	0.3314	1.825
1.13	153.5	14.96	138.5	103.0	35.5	0.3466	1.805
1.14	151.8	15.02	136.8	100.0	36.8	0.3680	1.776
1.15	148.3	15.08	133.2	96.0	37.2	0.3875	1.751
1.16	130.2	15.10	115.1	85.0	30.1	0.3541	1.761
1.18	114.8	15.15	99.6	73.0	26.6	0.3644	1.762
1.20	91.10	15.20	75.9	55.3	20.6	0.3725	1.770
1.22	76.77	15.17	61.6	45.3	16.3	0.3598	1.787
1.24	67.03	15.13	51.9	39.0	12.9	0.3308	1.826
1.25	62.71	15.11	47.6	36.0	11.6	0.3222	1.838
1.26	57.79	15.09	42.7	32.3	10.4	0.3220	1.862
1.28	52.98	15.04	37.94	29.6	8.34	0.2818	1.896
1.30	48.91	14.99	33.92	27.1	6.82	0.2517	1.941
1.32	45.97	14.95	31.02	25.2	5.82	0.2310	1.974
1.34	43.45	14.91	28.54	23.5	5.04	0.2145	2.001
1.35	42.61	14.89	27.72	23.0	4.72	0.2052	2.016
1.36	41.40	14.87	26.53	22.1	4.43	0.2005	2.024
1.38	40.01	14.84	25.17	21.2	3.97	0.1873	2.047
1.40	38.38	14.80	23.58	20.0	3.58	0.1790	2.061
1.42	37.15	14.78	22.37	19.1	3.27	0.1712	2.075
1.44	35.97	14.75	21.22	18.2	3.02	0.1659	2.084
1.46	35.11	14.71	20.40	17.6	2.80	0.1591	2.096
1.48	34.61	14.69	19.92	17.3	2.62	0.1514	2.110
1.50	34.04	14.66	19.38	16.9	2.48	0.1467	2.119
1.52	33.51	14.64	18.87	16.5	2.37	0.1436	2.125
1.54	33.1	14.62	18.48	16.2	2.28	0.1407	2.130
1.56	32.68	14.59	18.09	15.9	2.19	0.1377	2.136
1.58	32.3	14.57	17.73	15.6	2.13	0.1365	2.138
1.60	32.03	14.55	17.48	15.4	2.08	0.1351	2.141
1.7	31.06	14.45	16.61	14.5	2.11	0.1455	2.121
1.78	30.92	14.39	16.53	14.1	2.43	0.1723	2.073
1.80	30.37	14.37	16.00	13.4	2.60	0.1940	2.035
1.82	30.65	14.35	16.30	13.5	2.80	0.2074	2.013
1.84	31.02	14.34	16.68	13.6	3.08	0.2265	1.981
1.86	31.42	14.32	17.10	13.7	3.40	0.2482	1.947
1.88	32.06	14.31	17.75	13.9	3.85	0.2770	1.903
1.90	32.97	14.29	18.68	14.2	4.48	0.3155	1.847
1.92	34.72	14.28	20.44	15.0	5.44	0.3627	1.783
1.94	37.29	14.27	23.02	16.0	7.02	0.4388	1.689

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
1.96	42.05	14.25	27.08	17.5	10.3	0.5886	1.530
1.98	49.84	14.24	35.6	19.0	16.6	0.8737	1.297
2.00	64.63	14.23	50.4	21.5	28.9	1.3442	1.037
2.05	94.39	14.19	80.20	25.7	54.5	2.1206	0.779
2.10	45.46	14.16	31.3	15.1	16.2	1.0728	1.172
2.15	32.26	14.13	18.13	12.4	5.73	0.4621	1.662
2.20	28.62	14.10	14.52	11.4	3.12	0.2737	1.908
2.25	27.49	14.07	13.42	11.0	2.42	0.2200	1.992
2.29	26.77	14.05	12.72	10.6	2.12	0.2000	2.025
2.30	26.60	14.04	12.56	10.5	2.06	0.1962	2.031
2.33	26.25	14.03	12.22	10.3	1.92	0.1864	2.048
2.35	26.07	14.02	12.05	10.2	1.85	0.1814	2.057
2.38	22.15	14.00	11.65	9.9	1.75	0.1768	2.065
2.40	25.49	13.99	11.50	9.8	1.70	0.1735	2.071
2.45	24.95	13.96	10.99	9.4	1.59	0.1691	2.079
2.5	24.40	13.94	10.46	8.95	1.51	0.1687	2.079
2.55	23.84	13.87	9.97	8.5	1.47	0.1729	2.072
2.6	23.40	13.80	9.6	8.0	1.60	0.2000	2.025
2.65	23.0	13.74	9.26	7.45	1.81	0.2430	1.955
2.7	23.01	13.67	9.34	7.1	2.24	0.3155	1.847
2.75	25.77	13.60	12.17	9.0	3.17	0.3522	1.797
2.8	31.34	13.54	17.80	13.0	4.80	0.3692	1.775
2.85	34.38	13.48	20.9	16.8	4.10	0.2440	1.953
2.9	35.37	13.41	21.96	19.1	2.86	0.1497	2.114
2.95	36.88	13.34	23.54	20.4	3.14	0.1539	2.106
3.0	41.15	13.27	27.88	23.8	4.08	0.1714	2.074
3.05	49.85	13.21	36.64	30.5	6.14	0.2013	2.023
3.1	67.14	13.14	54.0	42.5	11.5	0.2706	1.912
3.15	87.67	13.07	74.6	49.6	25.0	0.5040	1.616
3.2	79.5	13.00	66.5	37.5	29.0	0.7733	1.370
3.25	43.44	12.94	30.5	23.5	7.0	0.2979	1.872
3.3	35.63	12.87	22.76	18.6	4.16	0.2237	1.986
3.35	34.25	12.80	21.45	17.6	3.85	0.2188	1.994
3.4	35.56	12.74	22.82	18.6	4.22	0.2269	1.981
3.45	41.67	12.67	29.0	23.5	5.50	0.2340	1.969
3.5	55.86	12.61	43.25	33.5	9.75	0.2910	1.882
3.55	90.34	12.54	77.80	53.5	24.3	0.4542	1.671
3.6	170.48	12.48	158.0	88.0	70.0	0.7955	1.353
3.65	128.41	12.41	116.0	59.0	57.0	0.9661	1.236
3.7	62.54	12.34	50.20	27.0	23.2	0.8593	1.307

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
3.75	33.97	12.27	21.70	11.2	10.5	0.9375	1.254
3.8	23.15	12.20	10.95	5.0	5.95	1.1900	1.110
3.85	19.2	12.14	7.060	3.0	4.06	1.353	1.033
3.9	17.82	12.08	5.740	2.67	3.07	1.150	1.130
3.95	17.06	12.01	5.050	2.5	2.55	1.02	1.203
4.0	16.68	11.94	4.740	2.42	2.32	0.9587	1.241
4.05	16.05	11.88	4.170	2.39	1.78	0.7448	1.393
4.1	15.70	11.81	3.890	2.37	1.52	0.6414	1.481
4.15	15.45	11.74	3.710	2.37	1.34	0.5654	1.552
4.2	15.28	11.68	3.600	2.38	1.22	0.5126	1.607
4.25	15.20	11.61	3.590	2.41	1.18	0.4896	1.631
4.3	15.16	11.54	3.620	2.44	1.18	0.4836	1.638
4.35	15.19	11.48	3.710	2.48	1.23	0.4960	1.624
4.4	15.30	11.41	3.890	2.54	1.35	0.5315	1.587
4.45	15.56	11.34	4.220	2.68	1.54	0.5746	1.543
4.5	15.95	11.28	4.670	2.82	1.85	0.6560	1.467
4.55	16.58	11.21	5.370	3.00	2.37	0.7900	1.358
4.6	17.53	11.14	6.390	3.18	3.21	1.009	1.210
4.65	19.40	11.08	8.320	3.47	4.85	1.398	1.013
4.7	24.10	11.01	13.10	3.90	9.2	2.359	0.7234
4.75	35.94	10.94	25.00	5.0	20.0	4.0	0.4860
4.8	87.88	10.88	77.00	12.0	65.0	5.417	0.3787
4.85	205.96	10.81	195.15	20.15	175.0	8.685	0.2509
4.9	88.44	10.74	77.70	11.7	66.0	5.641	0.3659
4.95	33.08	10.68	22.40	7.4	15.0	2.027	0.8028
5.0	22.01	10.61	11.40	6.4	5.0	0.7813	1.364
5.05	20.34	11.49	8.850	5.35	3.5	0.6542	1.469
5.1	18.88	11.48	7.400	5.2	2.2	0.4231	1.708
5.15	19.32	11.47	7.850	5.8	2.05	0.3534	1.796
5.2	20.81	11.46	9.350	7.1	2.25	0.3169	1.845
5.25	22.65	11.45	11.20	8.4	2.8	0.333	1.823
5.3	25.85	11.45	14.40	9.4	5.0	0.5319	1.586
5.35	31.44	11.44	20.00	11.0	9.0	0.8182	1.337
5.4	37.13	11.43	25.70	12.7	13.0	1.024	1.201
5.45	42.12	11.42	30.7	14.7	16.0	1.088	1.164
5.5	37.01	11.41	25.6	15.6	10.0	0.6410	1.481
5.55	35.8	11.40	24.4	15.3	9.1	0.5948	1.524
5.6	34.2	11.40	22.8	15.1	7.7	0.5099	1.609
5.65	32.47	11.39	21.08	14.5	6.58	0.4538	1.671
5.7	31.41	11.38	20.03	14.2	5.83	0.4106	1.723
5.75	30.89	11.37	19.52	14.0	5.52	0.3943	1.743

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
5.8	31.20	11.37	19.83	14.2	5.63	0.3965	1.740
5.85	32.51	11.36	21.15	14.5	6.65	0.4586	1.666
5.9	36.45	11.35	25.1	15.3	9.8	0.6405	1.481
5.95	37.54	11.34	26.2	17.2	9.0	0.5233	1.595
6.0	39.49	11.34	28.15	20.1	8.05	0.4005	1.744
6.05	46.43	11.33	35.1	24.0	11.1	0.4625	1.662
6.1	56.53	11.33	45.2	30.2	15.0	0.4967	1.624
6.15	73.52	11.32	62.2	40.2	22.0	0.5473	1.570
6.2	94.82	11.32	83.5	48.5	35.0	0.7216	1.411
6.25	116.31	11.31	105.0	45.0	60.0	1.333	1.042
6.3	188.31	11.31	177.0	57.0	120.0	2.105	0.7826
6.35	364.43	12.43	352.0	112.0	240.0	2.143	0.7731
6.4	540.61	12.61	528.0	138.0	390.0	2.826	0.6351
6.45	296.45	11.45	285.0	60.0	225.0	3.750	0.5116
6.5	119.70	10.70	109.0	28.0	81.0	2.893	0.6242
6.55	64.37	10.47	53.9	12.1	41.8	3.455	0.5455
6.6	41.90	10.40	31.5	10.0	21.5	2.150	0.7714
6.65	32.67	10.37	22.3	8.7	13.6	1.563	0.9481
6.7	27.35	10.35	17.0	8.1	8.9	1.099	1.158
6.75	25.74	10.34	15.4	8.3	7.1	0.8554	1.310
6.8	26.33	10.33	16.0	9.1	6.9	0.7582	1.382
6.85	28.03	10.33	17.7	10.6	7.1	0.6698	1.455
6.9	33.54	10.34	23.2	12.7	10.5	0.8268	1.330
6.95	54.35	10.35	44.0	19.0	25.0	1.316	1.049
7.0	114.41	10.41	104.0	38.0	66.0	1.737	0.8878
7.05	213.5	10.50	203.0	93.0	110.0	1.183	1.113
7.1	178.61	10.61	168.0	82.0	86.0	1.049	1.186
7.15	95.99	10.49	85.5	43.0	42.5	0.9884	1.222
7.2	54.98	10.38	44.6	22.0	22.6	1.027	1.199
7.25	32.84	10.34	22.5	10.0	12.5	1.25	1.080
7.3	24.73	10.33	14.4	6.9	7.5	1.087	1.164
7.35	20.32	10.32	10.0	5.5	4.5	0.8182	1.336
7.4	18.57	10.32	8.25	5.0	3.25	0.6500	1.473
7.45	17.62	10.32	7.3	4.78	2.52	0.5272	1.5911
7.5	17.04	10.32	6.72	4.4	2.32	0.5273	1.591
7.55	16.69	10.32	6.37	4.25	2.12	0.4988	1.621
7.6	16.41	10.32	6.09	4.05	2.04	0.5037	1.616
7.65	16.23	10.32	5.91	3.9	2.01	0.5154	1.604
7.7	16.06	10.32	5.74	3.74	2.00	0.5348	1.583
7.75	15.89	10.32	5.57	3.58	1.99	0.5559	1.562
7.8	15.86	10.33	5.53	3.54	1.99	0.5621	1.556

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
7.85	16.02	10.33	5.69	3.68	2.01	0.5462	1.572
7.9	16.27	10.33	5.94	3.92	2.02	0.5153	1.604
7.95	16.75	10.33	6.42	4.36	2.06	0.4725	1.650
8.0	17.39	10.34	7.05	4.95	2.10	0.4242	1.706
8.05	18.12	10.34	7.78	5.6	2.18	0.3893	1.749
8.1	19.23	10.35	8.88	6.5	2.38	0.3662	1.779
8.15	20.50	10.35	10.15	7.5	2.65	0.3533	1.796
8.2	22.47	10.37	12.10	8.7	3.4	0.3908	1.747
8.25	24.66	10.38	14.28	9.8	4.48	0.4571	1.668
8.3	29.0	10.40	18.6	12.6	6.0	0.4762	1.646
8.35	35.22	10.42	24.8	16.3	8.5	0.5215	1.597
8.4	43.46	10.46	33.0	21.0	12.0	0.5714	1.546
8.45	56.32	10.52	45.8	28.8	17.0	0.5903	1.528
8.5	79.4	10.60	68.8	44.5	24.3	0.5461	1.572
8.55	113.27	10.77	102.5	65.0	37.5	0.5769	1.541
8.6	217.08	11.08	206.0	140.0	66.0	0.4714	1.651
8.65	269.8	12.0	257.8	245.0	128.0	0.5224	1.596
8.7	748.81	13.81	735.0	450.0	285.0	0.6333	1.488
8.75	1076.08	16.08	1060.0	690.0	370.0	0.5362	1.582
8.8	916.46	16.46	900.0	570.0	330.0	0.5789	1.539
8.85	575.06	14.06	561.0	390.0	171.0	0.4385	1.689
8.9	352.1	12.10	340.0	235.0	105.0	0.4468	1.680
8.95	231.17	11.17	220.0	155.0	65.0	0.4194	1.712
9.0	176.4	10.8	165.6	121.0	44.6	0.3686	1.776
9.05	143.63	10.63	133.0	102.0	31.0	0.3039	1.864
9.1	129.15	10.55	118.6	90.0	28.6	0.3178	1.844
9.15	130.32	10.52	119.8	85.0	34.8	0.4094	1.724
9.2	152.34	10.54	141.8	91.0	50.8	0.5582	1.559
9.25	176.38	10.58	165.8	112.0	53.8	0.4804	1.641
9.3	179.58	10.58	169.0	120.0	49.0	0.4083	1.725
9.35	136.51	10.51	126.0	92.0	34.0	0.3696	1.774
9.4	91.04	10.44	90.6	67.0	23.6	0.3522	1.797
9.45	81.9	10.40	71.5	54.5	17.0	0.3119	1.852
9.5	68.77	10.37	58.4	46.0	12.4	0.2696	1.914
9.55	60.96	10.36	50.6	41.0	9.6	0.2341	1.969
9.6	58.95	10.35	48.6	38.5	10.1	0.2623	1.925
9.65	60.85	10.35	50.5	37.4	13.1	0.3503	1.780
9.7	72.05	10.35	61.7	44.0	17.7	0.4023	1.733
9.75	66.55	10.35	56.2	42.0	14.2	0.3381	1.816
9.8	57.04	10.34	46.7	36.0	10.7	0.2972	1.873
9.85	49.53	10.33	39.2	31.0	8.2	0.2645	1.922

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
9.9	44.53	10.33	34.2	28.2	6.2	0.2199	1.992
9.95	40.48	10.33	30.15	25.2	4.95	0.1964	2.031
10.00	38.52	10.32	28.2	24.0	4.2	0.1750	2.068
10.05	47.2	10.32	37.0	25.5	11.5	0.4510	1.675
10.1	71.03	10.33	60.7	30.0	30.7	1.023	1.201
10.15	82.34	10.34	72.0	43.5	28.5	0.6552	1.468
10.2	73.35	10.35	63.0	46.0	17.0	0.3696	1.774
10.25	52.64	10.34	42.3	31.0	11.3	0.3645	1.781
10.3	43.13	10.33	32.8	25.0	7.8	0.3120	1.852
10.35	36.43	10.33	26.1	20.5	5.6	0.2732	1.909
10.4	32.57	10.32	22.25	18.0	4.25	0.2361	1.966
10.45	29.48	10.32	19.16	15.8	3.36	0.2127	2.004
10.5	27.74	10.32	17.42	14.1	3.32	0.2355	1.967
10.55	26.98	10.33	16.65	13.3	3.35	0.2519	1.941
10.6	27.71	10.33	17.38	13.8	3.58	0.2232	1.987
10.65	29.43	10.33	19.1	15.0	4.1	0.2733	1.894
10.7	32.53	10.33	22.2	17.2	5.0	0.2907	1.883
10.75	32.94	10.34	22.6	15.8	6.8	0.4304	1.699
10.8	32.40	10.34	22.06	14.7	7.36	0.5009	1.619
10.85	30.41	10.35	20.06	13.8	6.26	0.4536	1.672
10.9	28.93	10.35	18.58	13.2	5.38	0.4076	1.726
10.95	28.07	10.35	17.72	12.7	5.02	0.3953	1.742
11.00	27.73	10.36	17.37	12.3	5.07	0.4122	1.721
11.05	27.41	10.36	17.5	12.2	5.3	0.4344	1.694
11.10	28.47	10.37	18.1	12.2	5.9	0.4836	1.638
11.15	29.25	10.38	18.87	12.3	6.57	0.5341	1.584
11.2	30.68	10.40	20.28	12.7	7.58	0.5969	1.522
11.25	32.22	10.42	21.8	12.9	8.9	0.6899	1.438
11.3	34.45	10.45	24.0	13.3	10.7	0.8045	1.3466
11.35	37.71	10.51	27.2	13.8	13.4	0.971	1.233
11.4	42.41	10.61	31.8	14.4	17.4	1.208	1.101
11.45	50.55	10.85	39.7	15.3	24.4	1.595	0.936
11.5	68.50	11.70	56.8	17.3	39.5	2.283	0.718
11.55	114.45	14.45	100.0	22.0	78.0	3.545	0.535
11.6	223.22	18.22	205.00	40.0	165.0	4.125	0.474
11.65	482.75	20.75	462.0	62.0	400.0	6.452	0.326
11.7	600.44	17.44	583.0	73.0	510.0	6.986	0.304
11.75	291.78	13.78	278.0	38.0	240.0	6.316	0.332
11.8	134.48	11.48	123.0	20.0	103.0	5.15	0.395
11.85	76.26	10.86	65.4	14.4	51.0	3.542	0.535
11.9	52.83	10.73	42.1	13.6	28.5	2.096	0.784

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
11.95	41.89	10.69	31.2	13.5	17.7	1.311	1.051
12.00	41.50	10.70	30.8	14.0	16.8	1.200	1.105
12.05	44.98	10.78	34.2	17.0	17.2	1.012	1.208
12.1	52.56	10.96	41.6	20.0	21.6	1.080	1.168
12.15	65.74	11.24	54.5	24.5	30.0	1.224	1.093
12.2	92.87	11.87	81.0	35.0	46.0	1.314	1.050
12.25	145.27	14.27	131.0	54.0	77.0	1.426	1.002
12.3	299.38	19.38	280.0	130.0	150.0	1.154	1.128
12.35	612.27	27.27	585.0	240.0	345.0	1.438	0.997
12.4	342.09	32.09	848.0	310.0	538.0	1.735	0.888
12.45	706.68	26.68	680.0	330.0	350.0	1.061	1.179
12.5	353.73	18.73	335.0	180.0	155.0	0.861	1.306
12.55	183.18	13.18	170.0	90.0	80.0	0.8889	1.286
12.6	99.68	11.68	88.0	44.0	44.0	1.0	1.215
12.65	61.12	11.12	50.0	24.0	26.0	1.083	1.167
12.7	49.35	10.85	38.5	21.0	17.5	0.8333	1.325
12.75	47.80	10.70	37.1	23.0	14.1	0.6130	1.507
12.8	55.21	10.61	44.6	30.0	14.6	0.4867	1.634
12.85	64.75	10.55	54.2	37.0	17.2	0.4649	1.659
12.9	72.50	10.50	62.0	41.0	21.0	0.5122	1.607
12.95	57.86	10.46	47.4	28.0	19.4	0.6929	1.435
13.00	44.14	10.44	33.7	19.0	14.7	0.7737	1.370
13.05	38.62	10.42	28.2	16.8	11.4	0.6786	1.448
13.10	37.31	10.41	26.9	17.1	9.8	0.5731	1.545
13.15	40.51	10.41	30.1	20.5	9.6	0.4683	1.655
13.20	48.53	10.43	38.1	27.0	11.1	0.4111	1.722
13.25	54.96	10.46	44.5	31.0	13.5	0.4355	1.693
13.30	60.39	10.49	49.9	33.0	16.9	0.5121	1.607
13.35	57.16	10.46	46.7	27.0	19.7	0.7296	1.405
13.40	51.51	10.41	41.1	23.0	18.1	0.7870	1.360
13.45	47.09	10.39	36.7	22.0	14.7	0.6682	1.457
13.50	48.18	10.38	37.8	25.0	12.8	0.5120	1.607
13.55	55.16	10.46	44.7	32.0	12.7	0.3969	1.740
13.60	61.90	10.60	51.3	38.0	13.3	0.3500	1.800
13.65	67.27	10.67	56.6	41.0	15.6	0.3805	1.760
13.70	76.59	10.59	66.0	46.0	20.0	0.4348	1.694
13.75	89.89	10.49	79.4	53.0	26.4	0.4981	1.622
13.80	105.92	10.42	95.5	59.0	36.5	0.6186	1.501
13.85	117.25	10.45	106.8	65.0	41.8	0.6431	1.479
13.90	124.53	10.53	114.0	71.0	43.0	0.6056	1.514
13.95	129.11	10.61	118.5	78.0	40.5	0.5192	1.600

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
14.00	127.48	10.68	116.8	80.0	36.8	0.4600	1.664
14.05	119.26	10.66	108.6	77.0	31.6	0.4104	1.723
14.10	99.26	10.56	88.7	64.0	26.7	0.4172	1.715
14.15	86.19	10.49	75.7	53.0	22.7	0.4283	1.701
14.20	77.41	10.41	67.0	48.0	19.0	0.3958	1.741
14.25	69.48	10.38	59.1	42.0	17.1	0.4071	1.727
14.30	65.27	10.37	54.9	39.0	15.9	0.4077	1.726
14.35	62.77	10.37	52.4	37.0	15.4	0.4162	1.716
14.40	62.22	10.42	51.8	36.0	15.8	0.4389	1.689
14.45	67.17	10.47	56.7	36.5	20.2	0.5534	1.564
14.50	89.02	10.52	78.5	46.0	32.5	0.7065	1.424
14.55	106.99	10.49	96.5	41.5	55.0	1.325	1.045
14.60	88.42	10.42	78.0	29.0	49.0	1.690	0.9033
14.65	57.96	10.36	47.6	20.0	27.6	1.380	1.021
14.70	43.44	10.34	33.1	16.0	17.1	1.069	1.174
14.75	35.73	10.33	25.4	14.0	11.4	0.8143	1.339
14.80	30.42	10.32	20.1	12.0	8.1	0.6750	1.451
14.85	27.12	10.32	16.8	10.8	6.0	0.5556	1.562
14.90	24.92	10.32	14.6	10.1	4.5	0.4455	1.681
14.95	23.59	10.32	13.27	9.8	3.47	0.3541	1.795
15.00	23.59	10.33	13.26	9.9	3.36	0.3394	1.814
15.05	24.51	10.33	14.18	10.1	4.08	0.4040	1.731
15.10	26.64	10.34	16.3	11.1	5.2	0.4685	1.655
15.15	30.65	10.35	20.3	13.0	7.3	0.5615	1.556
15.20	37.08	10.38	26.7	16.3	10.4	0.6380	1.484
15.25	46.45	10.45	36.0	21.0	15.0	0.7143	1.417
15.30	61.86	10.56	51.3	27.0	24.3	0.9000	1.279
15.35	105.71	10.71	95.0	50.0	45.0	0.9000	1.279
15.40	146.3	10.80	135.5	67.0	68.5	1.022	1.202
15.45	125.72	10.72	115.0	52.0	63.0	1.212	1.104
15.50	86.12	10.62	75.5	40.0	35.5	0.8875	1.287
15.55	52.82	10.52	42.3	22.0	20.3	0.9227	1.264
15.60	32.29	10.39	21.9	9.0	12.9	1.433	0.9988
15.65	26.67	10.37	16.3	7.5	8.8	1.173	1.118
15.70	22.86	10.36	12.5	6.3	6.2	0.9841	1.225
15.75	22.04	10.36	11.68	6.1	5.58	0.9148	1.269
15.80	22.31	10.36	11.95	6.0	5.95	0.9917	1.220
15.85	26.1	10.40	15.7	7.5	8.2	1.093	1.161
15.90	32.25	10.45	21.8	9.5	12.3	1.295	1.059
15.95	51.14	10.64	40.5	20.0	20.5	1.025	1.200
16.00	101.33	11.33	90.0	50.0	40.0	0.8000	1.350

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
16.05	167.81	11.81	156.0	71.0	85.0	1.197	1.106
16.10	234.18	12.18	222.0	62.0	160.0	2.581	0.6786
16.15	188.86	11.86	177.0	37.0	140.0	3.784	0.5079
16.20	76.15	11.15	65.0	21.0	44.0	2.095	0.7851
16.25	45.16	10.66	34.5	10.7	23.8	2.224	0.7537
16.30	31.76	10.46	21.3	7.2	14.1	1.958	0.8215
16.35	24.69	10.39	14.3	5.0	9.3	1.860	0.8497
16.40	24.1	10.40	13.7	4.8	8.9	1.854	0.8514
16.45	27.6	10.40	17.2	5.4	11.8	2.185	0.7630
16.50	39.03	10.43	28.6	11.0	17.6	1.600	0.9346
16.55	60.58	10.48	50.1	23.0	27.1	1.178	1.116
16.60	100.58	10.58	90.0	47.0	43.0	0.9149	1.269
16.65	132.64	10.64	122.0	70.0	52.0	0.7429	1.394
16.70	122.65	10.65	112.0	72.0	40.0	0.5556	1.562
16.75	94.78	10.58	84.2	57.0	27.2	0.4772	1.645
16.80	65.18	10.48	54.7	35.0	19.7	0.5629	1.555
16.85	50.02	10.42	39.6	25.0	14.6	0.5840	1.534
16.90	49.49	10.39	39.1	28.0	11.1	0.3964	1.740
16.95	32.87	10.37	22.5	14.0	8.5	0.6071	1.512
17.00	27.97	10.37	17.6	11.0	6.6	0.6000	1.519
17.05	25.26	10.36	14.9	9.5	5.4	0.5684	1.549
17.10	23.56	10.36	13.2	8.8	4.4	0.5000	1.620
17.15	22.06	10.36	11.7	8.4	3.3	0.3929	1.745
17.20	21.36	10.36	11.0	8.1	2.9	0.3580	1.789
17.25	20.66	10.36	10.3	7.8	2.5	0.3205	1.840
17.30	20.16	10.36	9.8	7.6	2.2	0.2895	1.884
17.35	19.76	10.36	9.4	7.4	2.0	0.2703	1.913
17.40	19.57	10.37	9.2	7.3	1.9	0.2603	1.928
17.45	19.82	10.37	9.45	7.6	1.85	0.2434	1.954
17.50	20.21	10.37	9.84	8.0	1.84	0.2300	1.976
17.55	20.96	10.38	10.58	8.7	1.88	0.2161	1.998
17.60	21.88	10.38	11.5	9.3	2.2	0.2366	1.965
17.65	23.99	10.39	13.6	10.1	3.5	0.3465	1.805
17.70	26.49	10.39	16.1	11.5	4.6	0.4000	1.736
17.75	28.20	10.40	17.8	13.0	4.8	0.3692	1.775
17.80	31.32	10.42	20.9	14.5	6.4	0.4414	1.686
17.85	36.24	10.44	25.8	17.0	8.8	0.5176	1.601
17.90	45.97	10.47	35.5	23.0	12.5	0.5435	1.574
17.95	71.03	10.53	60.5	41.0	19.5	0.4756	1.647
18.00	106.1	10.60	95.5	62.0	33.5	0.5403	1.578
18.05	131.33	10.63	120.7	84.0	36.7	0.4369	1.691

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
18.10	106.82	10.62	96.2	70.0	26.2	0.3743	1.768
18.15	85.97	10.57	75.4	56.0	19.4	0.3464	1.805
18.20	64.94	10.54	54.4	40.0	14.4	0.3600	1.787
18.25	51.33	10.53	40.8	30.0	10.8	0.3600	1.787
18.30	44.83	10.53	34.3	26.0	8.3	0.3192	1.842
18.35	40.05	10.55	29.5	23.0	6.5	0.2826	1.895
18.40	36.67	10.57	26.1	20.3	5.8	0.2857	1.890
18.45	35.65	10.60	25.05	19.3	5.75	0.2979	1.872
18.50	35.24	10.64	24.6	18.8	5.8	0.3085	1.857
18.55	35.36	10.67	24.69	18.8	5.89	0.3133	1.850
18.60	36.24	10.74	25.50	19.4	6.1	0.3144	1.849
18.65	37.96	10.81	27.15	20.8	6.35	0.3053	1.862
18.70	40.82	10.92	29.9	22.8	7.1	0.3114	1.853
18.75	44.84	11.04	33.8	24.8	9.0	0.3629	1.783
18.80	50.77	11.27	39.5	27.5	12.0	0.4364	1.692
18.85	58.18	11.48	46.7	30.5	16.2	0.5311	1.587
18.90	70.9	11.80	59.1	37.0	22.1	0.5973	1.521
18.95	88.27	12.27	76.0	45.0	31.0	0.6889	1.439
19.00	107.03	13.03	94.0	56.0	38.0	0.6786	1.448
19.05	147.38	15.38	132.0	80.0	52.0	0.6500	1.473
19.10	209.8	18.80	191.0	115.0	76.0	0.6609	1.463
19.15	330.94	24.94	306.0	188.0	118.0	0.6277	1.493
19.20	539.0	39.0	500.0	300.0	200.0	0.6667	1.458
19.25	872.23	47.23	825.0	420.0	405.0	0.9643	1.237
19.30	1068.58	48.58	1020.0	560.0	460.0	0.8214	1.334
19.35	902.18	42.18	860.0	500.0	360.0	0.7200	1.413
19.40	600.0	30.0	570.0	380.0	190.0	0.5000	1.620
19.45	280.17	20.17	260.0	140.0	120.0	0.8571	1.309
19.50	206.02	16.02	190.0	110.0	80.0	0.7273	1.407
19.55	128.87	13.87	115.0	60.0	55.0	0.9167	1.268
19.60	98.73	12.73	86.0	44.0	42.0	0.9545	1.243
19.65	82.06	12.06	70.0	37.0	33.0	0.8919	1.284
19.70	72.80	11.60	61.2	33.5	27.7	0.8269	1.330
19.75	63.93	11.33	52.6	30.0	22.6	0.7533	1.386
19.80	57.21	11.11	46.1	27.5	18.6	0.6764	1.450
19.85	51.88	10.98	40.9	25.5	15.4	0.6039	1.515
19.90	48.87	10.87	38.0	24.7	13.3	0.5385	1.580
19.95	46.72	10.82	35.9	23.8	12.1	0.5084	1.611
20.00	38.54	10.74	27.8	16.0	11.8	0.7375	1.399
20.05	41.81	10.71	31.1	19.0	12.1	0.6368	1.485
20.10	46.28	10.68	35.6	21.6	14.0	0.6481	1.474
20.15	51.9	10.7	41.2	22.2	19.0	0.8559	1.309

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
20.20	42.2	10.6	31.6	16.8	14.8	0.8810	1.292
20.25	36.4	10.6	25.8	14.0	11.8	0.8429	1.319
20.30	32.8	10.6	22.2	12.5	9.7	0.7760	1.368
20.35	31.8	10.6	21.2	11.2	10.0	0.8929	1.284
20.40	36.3	10.6	25.7	10.7	15.0	1.402	1.012
20.45	47.0	10.6	36.4	11.4	25.0	2.193	0.7610
20.50	67.1	10.6	56.5	16.5	40.0	2.424	0.7097
20.55	84.7	10.7	74.0	28.0	46.0	1.643	0.9194
20.60	96.0	10.8	85.2	39.5	45.7	1.157	1.127
20.65	93.3	10.8	82.5	45.0	37.5	0.8333	1.325
20.70	86.3	10.8	75.5	31.5	44.0	1.397	1.014
20.75	109.4	10.9	98.5	28.5	70.0	2.456	0.7031
20.80	154.0	11.0	143.0	28.0	115.0	4.107	0.4758
20.85	250.0	12.0	238.0	38.0	200.0	5.263	0.3880
20.90	406.1	14.1	392.0	52.0	340.0	6.538	0.3224
20.95	446.3	18.3	428.0	83.0	345.0	4.157	0.4712
21.00	401.3	23.3	378.0	98.0	280.0	2.857	0.6300
21.05	374.7	25.7	349.0	175.0	174.0	0.9943	1.218
21.10	306.2	23.2	283.0	175.0	108.0	0.6171	1.503
21.15	178.0	18.0	160.0	90.0	70.0	0.7778	1.367
21.20	120.9	13.9	107.0	60.0	47.0	0.7833	1.363
21.25	69.2	12.2	57.0	26.0	31.0	1.192	1.109
21.30	51.4	11.0	40.4	18.8	21.6	1.149	1.131
21.35	44.1	11.8	32.3	17.2	15.1	0.8779	1.294
21.40	37.5	10.7	26.8	15.8	11.0	0.6962	1.433
21.45	33.7	10.6	23.1	15.0	8.1	0.5400	1.578
21.50	30.9	10.5	20.4	14.1	6.3	0.4468	1.680
21.55	29.2	10.5	18.7	13.7	5.0	0.3650	1.780
21.60	27.15	10.4	16.75	12.8	3.95	0.3086	1.857
21.65	26.07	10.4	15.67	12.5	3.17	0.2536	1.938
21.70	25.0	10.4	14.60	12.1	2.50	0.2066	2.014
21.75	24.35	10.4	13.95	11.9	2.05	0.1723	2.073
21.80	23.99	10.4	13.59	11.7	1.89	0.1615	2.092
21.85	23.56	10.4	13.16	11.4	1.76	0.1544	2.105
21.90	23.22	10.4	12.82	11.1	1.72	0.1550	2.104
21.95	22.90	10.3	12.60	10.9	1.70	0.1560	2.102
22.00	22.79	10.3	12.49	10.8	1.69	0.1565	2.101
22.05	22.70	10.3	12.40	10.7	1.70	0.1589	2.097
22.10	22.81	10.3	12.51	10.8	1.71	0.1583	2.098
22.15	22.94	10.3	12.64	10.9	1.74	0.1596	2.096
22.20	23.00	10.3	12.70	10.9	1.80	0.1651	2.086

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
22.25	23.19	10.3	12.89	11.0	.1.89	0.1718	2.074
22.30	23.5	10.3	13.2	11.1	2.10	0.1892	2.043
22.35	24.0	10.3	13.7	11.2	2.5	0.2232	1.987
22.40	24.6	10.3	14.3	11.3	3.0	0.2655	1.920
22.45	25.56	10.3	15.26	11.6	3.66	0.3155	1.847
22.50	26.88	10.4	16.48	11.9	4.58	0.3849	1.755
22.55	28.6	10.4	18.2	12.2	6.0	0.4918	1.629
22.60	30.8	10.4	20.4	12.5	7.9	0.6320	1.489
22.65	34.5	10.4	24.1	13.1	11.0	0.8397	1.321
22.70	41.4	10.5	30.9	14.4	16.5	1.146	1.132
22.75	53.3	10.5	42.8	15.3	27.5	1.797	0.8688
22.80	82.8	10.8	72.0	26.0	46.0	1.769	0.8776
22.85	130.0	11.0	119.0	46.0	73.0	1.587	0.9393
22.90	157.3	11.3	146.0	71.0	75.0	1.056	1.182
22.95	120.3	11.3	109.0	69.0	40.0	0.5797	1.538
23.00	91.3	11.0	80.3	55.0	25.3	0.4600	1.664
23.05	67.3	10.8	56.5	38.0	18.5	0.4868	1.634
23.10	55.9	10.6	45.3	27.0	18.3	0.6778	1.448
23.15	54.6	10.6	44.0	22.0	22.0	1.000	1.215
23.20	71.6	10.6	61.0	22.0	39.0	1.773	0.8763
23.25	121.7	10.7	111.0	25.0	86.0	3.440	0.5473
23.30	246.2	11.2	235.0	32.0	203.0	6.344	0.3309
23.35	329.8	11.8	318.0	54.0	264.0	4.889	0.4126
23.40	341.4	12.4	329.0	71.0	258.0	3.634	0.5244
23.45	275.7	12.7	263.0	80.0	183.0	2.288	0.7391
23.50	221.6	13.6	208.0	90.0	118.0	1.311	1.051
23.55	185.3	14.3	171.0	91.0	80.0	0.8791	1.293
23.60	158.2	15.2	143.0	87.0	56.0	0.6437	1.478
23.65	152.1	14.6	137.5	97.0	40.5	0.4175	1.714
23.70	134.0	13.8	120.2	90.0	30.2	0.3356	1.819
23.75	103.4	12.1	91.3	68.0	23.3	0.3426	1.810
23.80	79.2	11.1	68.1	50.0	18.1	0.3620	1.784
23.85	65.1	10.8	54.3	40.0	14.3	0.3575	1.790
23.90	54.2	10.6	43.6	30.0	13.6	0.4533	1.672
23.95	48.9	10.5	38.4	24.0	14.4	0.6000	1.519
24.00	51.1	10.5	40.6	21.0	19.6	0.9333	1.257
24.05	63.0	10.5	52.5	24.0	28.5	1.188	1.111
24.10	70.1	10.6	59.5	28.0	31.5	1.125	1.144
24.15	107.8	10.8	97.0	36.0	61.0	1.694	0.9020
24.20	130.1	11.1	119.0	50.0	69.0	1.380	1.021
24.25	132.2	11.2	121.0	57.0	64.0	1.123	1.145

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
24.30	110.1	11.1	99.0	49.0	50.0	1.020	1.203
24.35	91.4	10.9	80.5	43.0	37.5	0.8721	1.298
24.40	77.6	10.6	67.0	38.0	29.0	0.7632	1.378
24.45	65.0	10.5	54.5	32.0	22.5	0.7031	1.427
24.50	57.2	10.4	46.8	29.0	17.8	0.6138	1.506
24.55	52.8	10.4	42.4	28.0	14.4	0.5143	1.605
24.60	49.0	10.4	38.6	27.0	11.6	0.4296	1.699
24.65	47.5	10.4	37.1	27.5	9.6	0.3491	1.801
24.70	46.3	10.4	35.9	28.0	7.9	0.2821	1.895
24.75	45.8	10.4	35.4	28.8	6.6	0.2292	1.977
24.80	45.9	10.4	35.5	30.0	5.5	0.1833	2.054
24.85	45.95	10.4	35.55	31.0	4.55	0.1468	2.119
24.90	47.4	10.4	37.0	33.0	4.0	0.1212	2.167
24.95	49.32	10.4	38.92	35.0	3.92	0.1120	2.185
25.00	51.4	10.4	41.0	37.0	4.0	0.1081	2.193
25.05	56.12	10.4	45.72	41.0	4.72	0.1151	2.179
25.10	60.12	10.4	49.72	44.0	5.72	0.1300	2.150
25.15	64.55	10.4	54.15	47.0	7.15	0.1521	2.109
25.20	68.5	10.5	58.0	49.0	9.0	0.1837	2.053
25.25	74.1	10.5	63.6	52.0	11.6	0.2231	1.987
25.30	84.3	10.7	73.6	58.0	15.6	0.2690	1.915
25.35	94.8	10.8	84.0	63.0	21.0	0.3333	1.823
25.40	107.1	11.3	95.8	68.0	27.8	0.4088	1.725
25.45	114.2	11.7	102.5	71.0	31.5	0.4437	1.683
25.50	118.6	12.3	106.3	74.0	32.3	0.4365	1.692
25.55	112.4	12.4	100.0	74.0	26.0	0.3514	1.798
25.60	102.7	12.1	90.6	70.0	20.6	0.2943	1.877
25.65	91.0	11.8	79.2	63.0	16.2	0.2571	1.933
25.70	77.8	11.1	66.7	54.0	12.7	0.2352	1.967
25.75	70.3	10.9	59.4	49.0	10.4	0.2122	2.005
25.80	56.15	10.6	45.55	37.0	8.55	0.2311	1.974
25.85	48.55	10.5	38.05	31.0	7.05	0.2274	1.980
25.90	38.5	10.5	28.0	22.0	6.0	0.2727	1.909
25.95	33.48	10.4	23.08	18.0	5.08	0.2822	1.895
26.00	28.28	10.4	17.88	13.0	4.88	0.3754	1.767
26.05	27.4	10.4	17.0	11.8	5.2	0.4407	1.687
26.10	28.1	10.4	17.7	11.5	6.2	0.5391	1.579
26.15	30.95	10.4	20.55	12.8	7.75	0.6055	1.514
26.20	38.4	10.4	28.0	18.0	10.0	0.5556	1.562
26.25	48.5	10.4	38.1	25.0	13.1	0.5240	1.594
26.30	61.9	10.5	51.4	33.0	18.4	0.5576	1.560

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
26.35	83.6	10.6	73.0	47.0	26.0	0.5532	1.565
26.40	103.2	10.7	92.5	58.0	34.5	0.5948	1.524
26.45	113.6	10.8	102.8	67.0	35.8	0.5343	1.584
26.50	109.0	10.8	98.2	69.0	29.2	0.4232	1.707
26.55	87.0	10.7	76.3	55.0	21.3	0.3873	1.752
26.60	74.4	10.6	63.8	47.0	16.8	0.3574	1.790
26.65	62.2	10.5	51.7	38.0	13.7	0.3605	1.786
26.70	50.8	10.4	40.4	29.0	11.4	0.3931	1.744
26.75	44.2	10.4	33.8	24.0	9.8	0.4083	1.725
26.80	38.35	10.3	28.05	19.5	8.55	0.4385	1.689
26.85	35.45	10.3	25.15	17.2	7.95	0.4622	1.662
26.90	33.9	10.3	23.6	15.5	8.1	0.5226	1.595
26.95	32.65	10.3	22.35	13.8	8.55	0.6196	1.500
27.00	35.0	10.3	24.7	15.0	9.7	0.6467	1.476
27.05	43.1	10.3	32.8	21.5	11.3	0.5256	1.593
27.10	42.4	10.3	32.1	19.6	12.5	0.6378	1.484
27.15	40.8	10.3	30.5	17.5	13.0	0.7429	1.394
27.20	35.9	10.3	25.6	14.5	11.1	0.7655	1.376
27.25	32.2	10.3	21.9	12.4	9.5	0.7661	1.376
27.30	29.05	10.3	18.75	10.2	8.55	0.8382	1.322
27.35	27.83	10.3	17.53	9.8	7.73	0.7888	1.358
27.40	27.9	10.3	17.6	9.8	7.8	0.7959	1.353
27.45	32.9	10.4	22.5	13.0	9.5	0.7308	1.404
27.50	39.0	10.4	28.6	16.0	12.6	0.7875	1.359
27.55	50.0	10.5	39.5	22.0	17.5	0.7955	1.353
27.60	73.1	10.6	62.5	37.0	25.5	0.6892	1.439
27.65	106.3	10.8	95.5	56.0	39.5	0.7054	1.425
27.70	136.2	11.0	125.2	70.0	55.2	0.7886	1.359
27.75	154.7	11.2	143.5	84.0	59.5	0.7083	1.422
27.80	141.3	11.3	130.0	85.0	45.0	0.5294	1.589
27.85	114.6	11.2	103.4	70.0	33.4	0.4771	1.645
27.90	81.2	11.0	70.2	45.0	25.2	0.5600	1.558
27.95	62.9	10.7	52.2	33.0	19.2	0.5818	1.536
28.00	60.4	10.6	49.8	35.0	14.8	0.4229	1.708
28.05	41.5	10.5	31.0	19.3	11.7	0.6062	1.513
28.10	38.5	10.4	28.1	17.2	10.9	0.6337	1.487
28.15	39.0	10.5	28.5	17.0	11.5	0.6765	1.449
28.20	43.6	10.6	33.0	19.3	13.7	0.7098	1.421
28.25	49.3	10.7	38.6	21.5	17.1	0.7953	1.354
28.30	58.6	10.9	47.7	25.9	21.8	0.8417	1.319
28.35	68.2	11.0	57.2	29.0	28.2	0.9724	1.232

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

$E(eV)$	Total	Scattering	Absorption	Fission	Capture	α	η
28.40	64.2	10.9	53.3	24.0	29.3	1.221	1.094
28.45	52.2	10.7	41.5	20.5	21.0	1.024	1.201
28.50	44.1	10.5	33.6	18.0	15.6	0.8667	1.302
28.55	37.1	10.4	26.7	15.0	11.7	0.7800	1.365
28.60	32.4	10.3	22.1	13.0	9.1	0.7000	1.429
28.65	29.35	10.3	19.05	12.0	7.05	0.5875	1.531
28.70	27.35	10.3	17.05	11.3	5.75	0.5088	1.611
28.75	25.65	10.3	15.35	10.6	4.75	0.4481	1.678
28.80	24.12	10.3	13.82	9.8	4.02	0.4102	1.723
28.85	23.03	10.3	12.73	9.3	3.43	0.3688	1.775
28.90	22.17	10.3	11.87	8.9	2.97	0.3337	1.822
28.95	21.22	10.3	10.92	8.3	2.62	0.3157	1.847
29.00	20.61	10.3	10.31	7.9	2.41	0.3051	1.862
29.05	20.32	10.3	10.02	7.7	2.32	0.3013	1.867
29.10	20.0	10.3	9.7	7.4	2.30	0.3108	1.854
29.15	19.91	10.3	9.61	7.2	2.41	0.3347	1.821
29.20	20.05	10.3	9.75	7.0	2.75	0.3929	1.745
29.25	20.72	10.3	10.42	7.1	3.32	0.4676	1.656
29.30	21.68	10.3	11.38	7.3	4.08	0.5589	1.559
29.35	23.18	10.3	12.88	7.7	5.18	0.6727	1.453
29.40	25.6	10.4	15.2	8.2	7.0	0.8537	1.311
29.45	29.5	10.5	19.0	9.1	9.9	1.088	1.164
29.50	35.2	10.6	24.6	10.0	14.6	1.460	0.9878
29.55	45.4	10.9	34.5	12.0	22.5	1.875	0.8452
29.60	51.0	11.0	40.0	15.5	24.5	1.581	0.9415
29.65	46.1	11.0	35.1	16.0	19.1	1.194	1.108
29.70	35.0	10.9	24.1	9.8	14.3	1.459	0.9882
29.75	30.0	10.7	19.3	8.4	10.9	1.298	1.057
29.80	26.8	10.5	16.3	7.8	8.5	1.090	1.163
29.85	24.1	10.4	13.7	7.1	6.6	0.9296	1.259
29.90	22.3	10.3	12.0	6.7	5.3	0.7910	1.357
29.95	21.1	10.3	10.8	6.5	4.3	0.6615	1.463
30.00	20.1	10.3	9.8	6.3	3.5	0.5556	1.562
30.05	19.26	10.3	8.96	6.1	2.86	0.4689	1.654
30.10	19.04	10.3	8.74	6.3	2.44	0.3873	1.752
30.15	19.38	10.3	9.08	6.6	2.48	0.3758	1.766
30.20	20.32	10.3	10.02	7.1	2.92	0.4113	1.722
30.25	21.98	10.4	11.58	8.0	3.58	0.4475	1.679
30.30	23.32	10.4	12.92	8.4	4.52	0.5381	1.580
30.35	25.7	10.4	15.3	9.6	5.7	0.5938	1.525
30.40	29.3	10.4	18.9	11.5	7.4	0.6435	1.479

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
30.45	36.4	10.7	25.7	16.0	9.7	0.6063	1.513
30.50	47.1	11.0	36.1	23.0	13.1	0.5696	1.548
30.55	58.1	11.1	47.0	29.0	18.0	0.6207	1.499
30.60	66.1	11.1	55.0	30.0	25.0	0.8333	1.325
30.65	74.5	11.2	63.3	28.0	35.3	1.261	1.075
30.70	95.9	11.4	84.5	34.5	50.0	1.449	0.9922
30.75	124.8	11.8	113.0	41.0	72.0	1.756	0.8817
30.80	132.5	12.1	120.4	39.0	81.4	2.087	0.7872
30.85	123.8	12.3	111.5	33.0	78.5	2.379	0.7191
30.90	95.7	12.2	83.5	21.5	62.0	2.884	0.6256
30.95	73.1	11.5	61.6	16.2	45.4	2.802	0.6391
31.00	57.6	10.9	46.7	11.9	34.8	2.924	0.6193
31.05	46.1	10.6	35.5	8.4	27.1	3.226	0.5750
31.10	38.2	10.5	27.7	6.6	21.1	3.197	0.5790
31.15	33.0	10.4	22.6	6.0	16.6	2.767	0.6451
31.20	29.5	10.4	19.1	5.8	13.3	2.293	0.7379
31.25	26.7	10.4	16.3	5.6	10.7	1.911	0.8348
31.30	24.7	10.4	14.3	5.5	8.8	1.600	0.9346
31.35	23.2	10.4	12.8	5.6	7.2	1.286	1.063
31.40	22.3	10.5	11.8	5.8	6.0	1.034	1.195
31.45	21.6	10.5	11.1	6.1	5.0	0.8197	1.335
31.50	21.77	10.5	11.27	6.5	4.77	0.7338	1.402
31.55	22.26	10.5	11.76	6.9	4.86	0.7043	1.426
31.60	24.4	10.6	13.8	8.2	5.6	0.6829	1.444
31.65	31.2	10.7	20.5	13.0	7.5	0.5769	1.541
31.70	36.9	10.8	26.1	15.5	10.6	0.6839	1.443
31.75	47.3	11.2	36.1	20.5	15.6	0.7610	1.380
31.80	71.4	11.8	59.6	37.0	22.6	0.6108	1.509
31.85	107.3	12.8	94.5	55.0	39.5	0.7182	1.414
31.90	176.3	14.3	162.0	90.0	72.0	0.8000	1.350
31.95	316.1	16.1	300.0	150.0	150.0	1.000	1.215
32.00	368.7	17.7	351.0	183.0	168.0	0.9180	1.267
32.05	291.3	18.3	273.0	160.0	113.0	0.7063	1.424
32.10	190.6	17.6	173.0	100.0	73.0	0.7300	1.405
32.15	127.5	16.0	111.5	63.0	48.5	0.7698	1.373
32.20	82.1	14.1	68.0	35.0	33.0	0.9429	1.251
32.25	60.9	12.7	48.2	24.5	23.7	0.9673	1.235
32.30	47.6	11.8	35.8	18.0	17.8	0.9889	1.222
32.35	38.7	11.2	27.5	13.8	13.7	0.9928	1.219
32.40	33.3	10.9	22.4	11.8	10.6	0.8983	1.280
32.45	29.8	10.8	19.0	10.6	8.4	0.7925	1.356

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
32.50	26.3	10.7	15.6	9.0	6.6	0.7333	1.402
32.55	24.9	10.7	14.2	8.0	6.2	0.7750	1.369
32.60	24.18	10.6	13.58	7.6	5.98	0.7868	1.360
32.65	23.67	10.6	13.07	7.3	5.77	0.7904	1.357
32.70	23.32	10.6	12.72	7.1	5.62	0.7915	1.356
32.75	23.16	10.6	12.56	7.0	5.56	0.7943	1.354
32.80	23.15	10.7	12.45	6.9	5.55	0.8043	1.347
32.85	23.2	10.6	12.6	7.0	5.6	0.8000	1.350
32.90	23.5	10.7	12.8	7.1	5.7	0.8028	1.348
32.95	23.88	10.7	13.18	7.3	5.88	0.8055	1.346
33.00	24.95	10.7	14.25	7.5	6.75	0.9000	1.279
33.05	27.3	10.8	16.5	7.8	8.7	1.115	1.149
33.10	30.6	11.0	19.6	8.1	11.5	1.420	1.004
33.15	35.8	11.2	24.6	9.0	15.6	1.733	0.8891
33.20	45.9	11.7	34.2	11.7	22.5	1.923	0.8313
33.25	62.6	12.6	50.0	15.0	35.0	2.333	0.7291
33.30	105.4	14.4	91.0	42.0	49.0	1.167	1.121
33.35	168.7	17.7	151.0	66.0	85.0	1.288	1.062
33.40	285.4	22.4	263.0	103.0	160.0	1.553	0.9518
33.45	329.3	27.3	302.0	119.0	183.0	1.538	0.9574
33.50	317.1	30.1	287.0	122.0	165.0	1.352	1.033
33.55	206.1	29.1	177.0	73.0	104.0	1.425	1.002
33.60	137.0	25.0	112.0	42.0	70.0	1.667	0.9111
33.65	98.4	19.9	78.5	29.0	49.5	1.707	0.8977
33.70	71.7	15.9	55.8	20.0	35.8	1.790	0.8710
33.75	55.2	13.4	41.8	15.0	26.8	1.787	0.8719
33.80	46.7	12.3	34.4	14.0	20.4	1.457	0.9890
33.85	41.2	11.8	29.4	13.3	16.1	1.211	1.099
33.90	39.1	11.7	27.4	13.5	13.9	1.030	1.197
33.95	42.0	12.0	30.0	16.0	14.0	0.8750	1.296
34.00	54.3	12.5	41.8	21.5	20.3	0.9442	1.250
34.05	74.6	13.6	61.0	29.0	32.0	1.103	1.155
34.10	106.8	16.3	90.5	36.5	54.0	1.479	0.9802
34.15	172.8	21.8	151.0	55.0	96.0	1.745	0.8852
34.20	282.0	24.0	258.0	82.0	176.0	2.146	0.7724
34.25	408.8	30.8	378.0	134.0	244.0	1.821	0.8614
34.30	391.4	41.4	350.0	151.0	199.0	1.318	1.048
34.35	320.6	48.6	272.0	135.0	137.0	1.015	1.206
34.40	240.1	48.1	192.0	94.0	98.0	1.043	1.189
34.45	195.6	40.1	155.5	85.0	70.5	0.8294	1.328
34.50	163.1	29.6	133.5	81.0	52.5	0.6481	1.474

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
34.55	145.1	21.3	123.8	80.0	43.8	0.5475	1.570
34.60	153.8	16.8	137.0	87.0	50.0	0.5747	1.543
34.65	184.2	15.2	169.0	96.0	73.0	0.7604	1.380
34.70	226.3	15.3	211.0	112.0	99.0	0.8839	1.290
34.75	270.8	15.8	255.0	129.0	126.0	0.9767	1.229
34.80	302.4	16.4	286.0	149.0	137.0	0.9195	1.266
34.85	287.6	16.6	271.0	168.0	103.0	0.6131	1.506
34.90	321.1	17.1	304.0	192.0	112.0	0.5833	1.535
34.95	367.4	18.4	349.0	218.0	131.0	0.6009	1.518
35.00	447.7	20.7	427.0	260.0	167.0	0.6423	1.480
35.05	556.9	23.9	533.0	315.0	218.0	0.6921	1.436
35.10	618.3	27.3	591.0	350.0	241.0	0.6886	1.439
35.15	539.1	29.1	510.0	300.0	210.0	0.7000	1.429
35.20	417.6	28.6	389.0	245.0	144.0	0.5878	1.530
35.25	336.7	25.7	311.0	205.0	106.0	0.5171	1.602
35.30	255.0	22.0	233.0	155.0	78.0	0.5032	1.617
35.35	199.5	20.0	179.5	119.0	60.5	0.5084	1.611
35.40	158.9	18.4	140.5	93.0	47.5	0.5108	1.608
35.45	132.2	15.7	116.5	79.0	37.5	0.4747	1.648
35.50	107.2	14.0	93.2	63.0	30.2	0.4794	1.643
35.55	91.6	12.9	78.7	54.0	24.7	0.4574	1.667
35.60	80.3	12.2	68.1	48.0	20.1	0.4188	1.713
35.65	70.1	11.8	58.3	41.5	16.8	0.4048	1.730
35.70	64.0	11.5	52.5	38.0	14.5	0.3816	1.759
35.75	57.8	11.4	46.4	33.0	13.4	0.4061	1.728
35.80	53.4	11.2	42.2	29.5	12.7	0.4305	1.699
35.85	51.0	11.1	39.9	27.0	12.9	0.4778	1.644
35.90	49.9	11.0	38.9	25.2	13.7	0.5437	1.574
35.95	49.4	10.9	38.5	23.8	14.7	0.6176	1.502
36.00	49.0	10.8	38.2	22.4	15.8	0.7054	1.425
36.05	49.3	10.7	38.6	21.6	17.0	0.7870	1.360
36.10	49.9	10.7	39.2	20.8	18.4	0.8846	1.289
36.15	50.8	10.7	40.1	20.2	19.9	0.9851	1.224
36.20	52.0	10.6	41.4	19.7	21.7	1.102	1.156
36.25	52.6	10.6	42.0	19.2	22.8	1.188	1.111
36.30	49.5	10.6	38.9	18.8	20.1	1.069	1.174
36.35	46.1	10.5	35.6	18.5	17.1	0.9243	1.263
36.40	43.4	10.5	32.9	18.2	14.7	0.8077	1.344
36.45	41.2	10.5	30.7	17.9	12.8	0.7151	1.417
36.50	39.5	10.5	29.0	17.6	11.4	0.6477	1.475
36.55	38.1	10.5	27.6	17.3	10.3	0.5954	1.523

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
36.60	37.0	10.5	26.5	17.1	9.4	0.5497	1.568
36.65	35.9	10.5	25.4	16.8	8.6	0.5119	1.607
36.70	35.05	10.5	24.55	16.7	7.85	0.4701	1.653
36.75	34.20	10.4	23.8	16.5	7.3	0.4424	1.685
36.80	33.53	10.4	23.13	16.3	6.83	0.4190	1.712
36.85	32.88	10.4	22.48	16.1	6.38	0.3963	1.740
36.90	32.55	10.4	22.15	16.1	6.05	0.3758	1.766
36.95	32.12	10.4	21.72	16.0	5.72	0.3575	1.790
37.00	31.83	10.4	21.43	16.0	5.43	0.3393	1.814
37.05	31.53	10.4	21.13	15.9	5.23	0.3289	1.829
37.10	31.32	10.4	20.92	15.9	5.02	0.3157	1.847
37.15	31.13	10.4	20.73	15.9	4.83	0.3038	1.864
37.20	31.08	10.4	20.68	16.0	4.68	0.2925	1.880
37.25	30.93	10.4	20.53	16.0	4.53	0.2831	1.894
37.30	30.92	10.4	20.52	16.1	4.42	0.2745	1.907
37.35	30.83	10.4	20.43	16.1	4.33	0.2689	1.915
37.40	30.85	10.4	20.45	16.2	4.25	0.2623	1.925
37.45	30.88	10.4	20.48	16.3	4.18	0.2564	1.934
37.50	30.91	10.4	20.51	16.4	4.11	0.2506	1.943
37.55	30.97	10.4	20.57	16.5	4.07	0.2467	1.949
37.60	31.02	10.4	20.62	16.6	4.02	0.2422	1.956
37.65	31.10	10.4	20.70	16.7	4.0	0.2395	1.960
37.70	31.19	10.4	20.79	16.8	3.99	0.2375	1.964
37.75	31.40	10.4	21.00	17.0	4.0	0.2353	1.967
37.80	32.05	10.4	21.65	17.6	4.05	0.2301	1.975
37.85	32.88	10.4	22.48	18.3	4.18	0.2284	1.978
37.90	34.02	10.4	23.62	19.3	4.32	0.2238	1.986
37.95	35.63	10.4	25.23	20.7	4.53	0.2188	1.994
38.00	38.35	10.5	27.85	23.0	4.85	0.2109	2.007
38.05	41.14	10.6	30.54	25.2	5.34	0.2119	2.005
38.10	45.85	10.9	34.95	29.0	5.95	0.2052	2.016
38.15	51.08	11.4	39.68	33.0	6.68	0.2024	2.021
38.20	58.4	11.9	46.5	39.0	7.5	0.1923	2.038
38.25	60.52	12.0	48.52	40.0	8.52	0.2130	2.003
38.30	51.9	12.2	39.7	30.0	9.7	0.3233	1.836
38.35	49.4	12.0	37.4	26.5	10.9	0.4113	1.722
38.40	46.1	11.5	34.6	22.8	11.8	0.5175	1.601
38.45	42.7	11.3	31.4	20.3	11.1	0.5468	1.571
38.50	37.8	10.9	26.9	18.3	8.6	0.4699	1.653
38.55	34.8	10.7	24.1	17.1	7.0	0.4094	1.724
38.60	32.62	10.5	22.12	16.3	5.82	0.3571	1.791

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
38.65	31.72	10.5	21.22	15.8	5.42	0.3430	1.809
38.70	31.12	10.5	20.62	15.3	5.32	0.3477	1.803
38.75	30.93	10.5	20.43	15.1	5.33	0.3530	1.796
38.80	31.38	10.5	20.88	15.3	5.58	0.3647	1.781
38.85	32.8	10.5	22.3	15.7	6.6	0.4204	1.711
38.90	36.4	10.6	25.8	16.8	9.0	0.5357	1.582
38.95	42.7	10.7	32.0	19.1	12.9	0.6754	1.450
39.00	51.9	10.8	41.1	21.0	20.1	0.9571	1.242
39.05	71.5	11.0	60.5	30.0	30.5	1.017	1.205
39.10	103.5	11.5	92.0	42.0	50.0	1.190	1.110
39.15	171.8	11.8	160.0	80.0	80.0	1.000	1.215
39.20	268.0	13.0	255.0	130.0	125.0	0.9615	1.239
39.25	340.4	15.4	325.0	165.0	160.0	0.9697	1.234
39.30	316.6	18.6	298.0	178.0	120.0	0.6742	1.451
39.35	245.8	19.8	226.0	150.0	76.0	0.5067	1.613
39.40	177.9	20.9	157.0	105.0	52.0	0.4952	1.625
39.45	132.6	20.6	112.0	75.0	37.0	0.4933	1.627
39.50	103.2	17.8	85.4	58.0	27.4	0.4724	1.639
39.55	83.2	15.0	68.2	44.0	24.2	0.5500	1.568
39.60	76.6	14.0	62.6	38.0	24.6	0.6474	1.475
39.65	73.7	12.5	61.2	34.0	27.2	0.8000	1.350
39.70	73.8	11.5	62.3	30.5	31.8	1.043	1.189
39.75	73.4	11.2	62.2	28.0	34.2	1.221	1.094
39.80	65.8	11.1	54.7	26.7	28.0	1.049	1.186
39.85	58.1	11.1	47.0	25.7	21.3	0.8288	1.329
39.90	52.4	11.1	41.3	24.5	16.8	0.6857	1.442
39.95	47.7	11.0	36.7	23.1	13.6	0.5887	1.530
40.00	44.5	10.9	33.6	22.0	11.6	0.5273	1.591
40.1	45.7	10.6	35.1	21.0	14.1	0.6714	1.454
40.2	48.6	10.5	38.1	20.0	18.1	0.9050	1.276
40.3	55.8	10.8	45.0	23.0	22.0	0.9565	1.242
40.4	61.2	11.2	50.0	32.2	17.8	0.5528	1.565
40.5	50.3	12.1	38.2	24.6	13.6	0.5528	1.565
40.6	42.3	11.9	30.4	19.8	10.6	0.5354	1.583
40.7	37.4	10.9	26.5	17.1	9.4	0.5497	1.568
40.8	36.4	10.6	25.8	16.2	9.6	0.5926	1.526
40.9	37.3	10.5	26.8	15.7	11.1	0.7070	1.424
41.0	45.5	10.6	34.9	21.8	13.1	0.6009	1.518
41.1	55.5	10.8	44.7	28.0	16.7	0.5964	1.522
41.2	62.9	11.2	51.7	34.5	17.2	0.4986	1.622
41.3	65.9	11.2	54.7	40.0	14.7	0.3675	1.777

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
41.4	68.4	10.9	57.5	37.5	20.0	0.5333	1.585
41.5	85.5	11.0	74.5	42.5	32.0	0.7529	1.386
41.6	126.0	11.7	114.3	54.3	60.0	1.105	1.154
41.7	189.9	16.9	173.0	58.0	115.0	1.983	0.8146
41.8	155.2	20.8	134.4	39.4	95.0	2.411	0.7124
41.9	105.3	22.0	83.3	27.3	56.0	2.051	0.7965
42.0	76.5	15.9	60.6	22.8	37.8	1.658	0.9142
42.1	69.7	12.7	57.0	30.5	26.5	0.8689	1.300
42.2	52.8	11.3	41.5	22.5	19.0	0.8444	1.318
42.3	47.4	11.2	36.2	16.7	19.5	1.168	1.121
42.4	51.8	11.0	40.8	15.0	25.8	1.720	0.8934
42.5	65.9	11.1	54.8	17.8	37.0	2.079	0.7892
42.6	60.3	11.3	49.0	11.0	38.0	3.455	0.5455
42.7	38.5	11.1	27.4	8.4	19.0	2.262	0.7449
42.8	30.6	10.8	19.8	7.7	12.1	1.571	0.9452
42.9	28.85	10.5	18.35	8.05	10.3	1.280	1.066
43.0	36.1	10.4	25.7	10.6	15.1	1.425	1.002
43.1	63.9	10.5	53.4	18.4	35.0	1.902	0.8374
43.2	105.6	10.9	94.7	30.2	64.5	2.136	0.7749
43.3	92.2	12.4	79.8	22.8	57.0	2.500	0.6943
43.4	62.4	12.8	49.6	17.1	32.5	1.901	0.8376
43.5	47.3	12.4	34.9	15.5	19.4	1.252	1.079
43.6	45.9	11.3	34.6	20.2	14.4	0.7129	1.419
43.7	59.9	11.0	48.9	29.4	19.5	0.6633	1.461
43.8	84.9	11.6	73.3	39.8	33.5	0.8417	1.319
43.9	59.1	12.4	46.7	20.2	26.5	1.312	1.051
44.0	51.5	12.5	39.0	25.5	13.5	0.5294	1.589
44.1	47.9	11.6	36.3	25.7	10.6	0.4125	1.720
44.2	59.7	11.0	48.7	34.0	14.7	0.4324	1.696
44.3	80.6	11.1	69.5	44.0	25.5	0.5795	1.538
44.4	123.2	12.2	111.0	66.0	45.0	0.6818	1.445
44.5	106.2	14.0	92.2	51.0	41.2	0.8078	1.344
44.6	88.3	16.0	72.3	41.0	31.3	0.7634	1.378
44.7	73.5	14.4	59.1	34.9	24.2	0.6934	1.435
44.8	60.7	12.4	48.3	29.7	18.6	0.6263	1.494
44.9	49.7	11.2	38.5	23.9	14.6	0.6109	1.508
45.0	43.8	10.9	32.9	21.3	11.6	0.5446	1.573
45.1	36.2	10.8	25.4	16.0	9.4	0.5875	1.531
45.2	30.96	10.7	20.26	12.1	8.16	0.6744	1.451
45.3	29.35	10.6	18.75	10.7	8.05	0.7523	1.387
45.4	29.50	10.5	19.0	10.3	8.7	0.8447	1.317

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
45.5	38.0	10.6	27.4	15.3	12.1	0.7908	1.357
45.6	43.7	10.9	32.8	17.4	15.4	0.8851	1.289
45.7	34.0	11.1	22.9	10.5	12.4	1.181	1.114
45.8	26.1	11.1	15.0	7.5	7.5	1.0	1.215
45.9	21.5	10.7	10.8	5.9	4.9	0.8305	1.328
46.0	19.57	10.4	9.17	5.5	3.67	0.6673	1.457
46.1	20.05	10.4	9.65	6.0	3.65	0.6083	1.511
46.2	22.1	10.4	11.7	7.5	4.2	0.5600	1.558
46.3	28.2	10.4	17.8	11.5	6.3	0.5478	1.569
46.4	42.3	10.4	31.9	21.5	10.4	0.4837	1.638
46.5	70.1	10.5	59.6	40.0	19.6	0.4900	1.631
46.6	106.6	10.6	96.0	56.0	40.0	0.7143	1.417
46.7	132.6	11.0	121.6	71.0	50.6	0.7127	1.419
46.8	116.8	11.3	105.5	56.0	49.5	0.8839	1.290
46.9	90.3	11.5	78.8	40.8	38.0	0.9314	1.258
47.0	60.2	11.1	49.1	26.0	23.1	0.8885	1.287
47.1	40.8	10.7	30.1	15.2	14.9	0.9803	1.227
47.2	31.6	10.5	21.1	11.4	9.7	0.8509	1.313
47.3	27.45	10.5	16.95	10.3	6.65	0.6456	1.477
47.4	28.20	10.5	17.7	10.5	7.2	0.6857	1.442
47.5	39.0	10.5	28.5	16.3	12.2	0.7485	1.390
47.6	61.9	10.6	51.3	28.8	22.5	0.7813	1.364
47.7	102.4	10.9	91.5	45.5	46.0	1.011	1.208
47.8	126.4	11.6	114.8	51.3	63.5	1.238	1.086
47.9	111.2	13.9	97.3	43.3	54.0	1.247	1.081
48.0	91.7	18.9	72.8	45.3	27.5	0.6071	1.512
48.1	100.8	24.6	76.2	56.0	20.2	0.3607	1.786
48.2	107.4	25.9	81.5	58.0	23.5	0.4052	1.729
48.3	87.0	18.0	69.0	36.0	33.0	0.9167	1.268
48.4	93.0	13.0	80.0	33.0	47.0	1.424	1.002
48.5	102.0	11.5	90.5	38.5	52.0	1.351	1.034
48.6	87.1	12.1	75.0	36.0	39.0	1.083	1.167
48.7	67.0	13.5	53.5	29.4	24.1	0.8197	1.335
48.8	52.6	14.5	38.1	22.1	16.0	0.7240	1.410
48.9	47.7	13.9	33.8	20.8	13.0	0.6250	1.496
49.0	58.4	12.4	46.0	27.5	18.5	0.6727	1.453
49.1	87.2	11.4	75.8	35.8	40.0	1.117	1.148
49.2	105.8	12.0	93.8	29.0	64.8	2.234	0.7514
49.3	83.0	14.0	69.0	19.0	50.0	2.632	0.6691
49.4	51.1	14.5	36.6	11.6	25.0	2.155	0.7702
49.5	36.8	13.1	23.7	8.6	15.1	1.756	0.8817

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
49.6	30.5	11.5	19.0	8.3	10.7	1.289	1.062
49.7	33.1	10.9	22.2	10.8	11.4	1.056	1.182
49.8	40.6	11.0	29.6	14.0	15.6	1.114	1.149
49.9	53.4	11.6	41.8	19.0	22.8	1.200	1.105
50.0	70.6	12.1	58.5	24.0	34.5	1.438	0.9967
50.1	99.9	11.9	88.0	34.0	54.0	1.588	0.9389
50.2	114.7	11.2	103.5	41.0	62.5	1.524	0.9628
50.3	103.8	10.8	93.0	52.0	41.0	0.7885	1.359
50.4	76.8	10.8	66.0	39.0	27.0	0.6923	1.436
50.5	63.3	10.8	52.5	34.5	18.0	0.5217	1.597
50.6	63.3	10.8	52.5	34.0	18.5	0.5441	1.574
50.7	85.6	10.6	75.0	50.0	25.0	0.5000	1.620
50.8	119.7	10.7	109.0	73.0	36.0	0.4932	1.627
50.9	189.8	10.8	179.0	122.0	57.0	0.4672	1.656
51.0	254.2	11.2	243.0	147.0	96.0	0.6531	1.470
51.1	238.0	12.0	226.0	121.0	105.0	0.8678	1.301
51.2	192.5	12.5	180.0	98.0	82.0	0.8367	1.323
51.3	141.9	12.9	129.0	72.0	57.0	0.7917	1.357
51.4	106.0	12.0	94.0	52.0	42.0	0.8077	1.344
51.5	88.0	11.2	76.8	46.0	30.8	0.6696	1.455
51.6	77.3	10.8	66.5	43.0	23.5	0.5465	1.571
51.7	84.6	10.6	74.0	50.0	24.0	0.4800	1.642
51.8	108.9	10.6	98.3	70.0	28.3	0.4043	1.730
51.9	134.2	10.7	123.5	91.0	32.5	0.3571	1.791
52.0	143.9	10.9	133.0	98.0	35.0	0.3571	1.791
52.1	116.8	11.0	105.8	83.0	30.2	0.3639	1.782
52.2	87.8	10.0	77.8	55.0	22.8	0.4145	1.718
52.3	65.1	10.9	54.2	36.0	18.2	0.5056	1.614
52.4	48.5	10.7	37.8	24.0	13.8	0.5750	1.543
52.5	39.8	10.6	29.2	18.4	10.8	0.5870	1.531
52.6	33.6	10.5	23.1	14.6	8.5	0.5822	1.536
52.7	30.1	10.4	19.7	12.3	7.4	0.6016	1.517
52.8	29.5	10.4	19.1	11.8	7.3	0.6186	1.501
52.9	33.8	10.4	23.4	15.2	8.2	0.5395	1.578
53.0	41.4	10.4	31.0	20.4	10.6	0.5196	1.599
53.1	54.2	10.4	43.8	29.5	14.3	0.4847	1.637
53.2	61.2	10.4	50.8	31.6	19.2	0.6076	1.512
53.3	50.1	10.4	39.7	20.0	19.7	0.9850	1.224
53.4	41.2	10.5	30.7	15.3	15.4	1.007	1.211
53.5	34.9	10.4	24.5	12.9	11.6	0.8992	1.279
53.6	30.8	10.4	20.4	11.4	9.0	0.7895	1.358

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
53.7	28.7	10.4	18.3	11.2	7.1	0.6339	1.487
53.8	30.0	10.4	19.6	14.0	5.6	0.4000	1.736
53.9	30.6	10.4	20.2	15.7	4.5	0.2866	1.889
54.0	27.4	10.4	17.0	13.3	3.7	0.2782	1.901
54.1	26.46	10.4	16.06	12.5	3.56	0.2848	1.891
54.2	26.75	10.4	16.35	12.7	3.65	0.2874	1.888
54.3	29.6	10.4	19.2	14.5	4.7	0.3241	1.835
54.4	38.1	10.4	27.7	20.0	7.7	0.3850	1.755
54.5	54.9	10.5	44.4	30.0	14.4	0.4800	1.642
54.6	90.1	10.6	79.5	45.0	34.5	0.7667	1.375
54.7	174.9	10.9	164.0	80.0	84.0	1.050	1.185
54.8	242.4	11.4	231.0	112.0	119.0	1.063	1.178
54.9	178.0	12.0	166.0	80.0	86.0	1.075	1.171
55.0	100.0	12.0	88.0	42.0	46.0	1.095	1.160
55.1	75.8	11.5	64.3	34.0	30.3	0.8912	1.285
55.2	69.3	11.0	58.3	31.8	26.5	0.8333	1.325
55.3	79.8	10.8	69.0	42.0	27.0	0.6429	1.479
55.4	109.7	10.7	99.0	60.0	39.0	0.6500	1.473
55.5	168.8	10.8	158.0	100.0	58.0	0.5800	1.538
55.6	222.1	11.1	211.0	132.0	79.0	0.5985	1.520
55.7	193.3	11.8	181.5	110.0	71.5	0.6500	1.473
55.8	185.5	12.7	172.8	104.0	68.8	0.6615	1.463
55.9	187.8	12.8	175.0	106.0	69.0	0.6509	1.472
56.0	233.3	12.3	221.0	147.0	74.0	0.5034	1.616
56.1	323.4	12.4	311.0	188.0	123.0	0.6543	1.469
56.2	361.0	13.0	348.0	170.0	178.0	1.047	1.187
56.3	272.0	14.0	258.0	118.0	140.0	1.186	1.112
56.4	133.3	15.3	118.0	67.0	51.0	0.7612	1.380
56.5	89.1	15.6	73.5	45.0	28.5	0.6333	1.488
56.6	58.7	14.3	44.4	28.0	16.4	0.5857	1.532
56.7	39.3	12.5	26.8	16.0	10.8	0.6750	1.451
56.8	32.8	11.3	21.5	14.0	7.5	0.5357	1.582
56.9	30.38	10.8	19.58	13.2	6.38	0.4833	1.638
57.0	30.82	10.6	20.22	13.9	6.32	0.4547	1.670
57.1	35.12	10.6	24.52	18.0	6.52	0.3622	1.784
57.2	43.10	10.6	32.5	25.0	7.5	0.3000	1.869
57.3	54.5	10.5	44.0	33.0	11.0	0.3333	1.823
57.4	71.5	10.5	61.0	44.0	17.0	0.3864	1.753
57.5	98.0	10.5	87.5	57.0	30.5	0.5351	1.583
57.6	134.6	10.6	124.0	68.0	56.0	0.8235	1.333
57.7	145.7	10.7	135.0	73.0	62.0	0.8493	1.314

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
57.8	134.0	11.0	123.0	65.0	58.0	0.8923	1.284
57.9	82.1	11.1	71.0	38.0	33.0	0.8684	1.301
58.0	58.4	11.1	47.3	28.8	18.5	0.6424	1.480
58.1	57.9	10.9	47.0	27.0	20.0	0.7407	1.396
58.2	83.2	10.7	72.5	36.0	36.5	1.014	1.207
58.3	97.9	10.7	87.2	45.0	42.2	0.9378	1.254
58.4	98.8	10.8	88.0	51.0	37.0	0.7255	1.408
58.5	85.9	11.2	74.7	54.5	20.2	0.3706	1.773
58.6	49.9	11.3	38.6	26.0	12.6	0.4846	1.637
58.7	31.4	11.4	20.0	11.8	8.2	0.6949	1.434
58.8	26.3	11.0	15.3	9.5	5.8	0.6105	1.509
58.9	22.9	10.6	12.3	8.1	4.2	0.5185	1.600
59.0	22.23	10.5	11.73	8.4	3.33	0.3964	1.740
59.1	24.03	10.4	13.63	10.4	3.23	0.3106	1.854
59.2	25.92	10.4	15.52	12.2	3.32	0.2721	1.910
59.3	29.3	10.5	18.8	14.8	4.0	0.2703	1.913
59.4	34.64	10.8	23.84	18.4	5.44	0.2957	1.875
59.5	42.0	12.1	29.9	22.5	7.4	0.3289	1.829
59.6	54.2	13.5	40.7	30.0	10.7	0.3567	1.791
59.7	67.0	13.8	53.2	37.0	16.2	0.4378	1.690
59.8	77.0	14.3	62.7	39.5	23.2	0.5873	1.531
59.9	72.8	13.5	59.3	36.5	22.8	0.6247	1.496
60.0	60.2	12.0	48.2	34.0	14.2	0.4176	1.714
60.1	42.7	12.0	30.7	22.5	8.2	0.3644	1.781
60.2	36.8	10.0	26.8	20.2	6.6	0.3267	1.832
60.3	40.52	12.0	28.52	22.0	6.52	0.2964	1.874
60.4	49.4	12.0	37.4	30.0	7.4	0.2467	1.949
60.5	57.2	12.0	45.2	33.4	11.8	0.3533	1.796
60.6	57.2	12.0	45.2	27.0	18.2	0.6741	1.452
60.7	52.0	12.0	40.0	21.0	19.0	0.9048	1.276
60.8	47.8	12.0	35.8	18.3	17.5	0.9563	1.242
60.9	41.8	12.0	29.8	15.3	14.5	0.9477	1.248
61.0	36.4	12.0	24.4	14.3	10.1	0.7063	1.424
61.1	31.1	12.0	19.1	11.8	7.3	0.6186	1.501
61.2	28.75	12.0	16.75	11.2	5.55	0.4955	1.625
61.3	25.71	11.99	13.72	9.4	4.32	0.4596	1.665
61.4	24.89	11.99	12.9	8.9	4.0	0.4494	1.677
61.5	24.41	11.99	12.42	8.5	3.92	0.4612	1.663
61.6	24.16	11.99	12.17	8.2	3.97	0.4841	1.637
61.7	24.11	11.99	12.12	8.0	4.12	0.5150	1.604
61.8	24.84	11.99	12.85	7.9	4.95	0.6266	1.494

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
61.9	26.39	11.99	14.4	7.8	6.6	0.8462	1.316
62.0	28.74	11.99	16.75	7.75	9.0	1.161	1.124
62.1	30.09	11.99	18.1	7.8	10.3	1.321	1.047
62.2	28.69	11.99	16.7	7.9	8.8	1.114	1.149
62.3	26.54	11.99	14.55	8.4	6.15	0.7321	1.403
62.4	25.44	11.99	13.45	8.9	4.55	0.5112	1.608
62.5	25.06	11.99	13.07	9.5	3.57	0.3758	1.766
62.6	25.86	11.99	13.87	10.6	3.27	0.3085	1.857
62.7	26.90	11.99	14.91	11.8	3.11	0.2636	1.923
62.8	28.52	11.99	16.53	13.5	3.03	0.2244	1.985
62.9	30.21	11.99	18.22	15.2	3.02	0.1987	2.027
63.0	33.33	11.99	21.34	18.3	3.04	0.1661	2.084
63.1	34.44	11.99	22.45	19.3	3.15	0.1632	2.089
63.2	35.63	11.99	23.64	20.3	3.34	0.1645	2.087
63.3	37.81	11.99	25.82	21.6	4.22	0.1954	2.033
63.4	40.99	11.99	29.0	23.3	5.7	0.2446	1.952
63.5	44.39	11.99	32.4	24.2	8.2	0.3388	1.815
63.6	49.09	11.99	37.1	25.3	11.8	0.4664	1.657
63.7	56.39	11.99	44.4	25.4	19.0	0.7480	1.390
63.8	69.99	11.99	58.0	25.0	33.0	1.320	1.047
63.9	81.99	11.99	70.0	23.7	46.3	1.954	0.8226
64.0	70.99	11.99	59.0	14.0	45.0	3.214	0.5766
64.1	42.39	11.99	30.4	7.4	23.0	3.108	0.5915
64.2	29.19	11.99	17.2	5.7	11.5	2.018	0.8052
64.3	22.99	11.99	11.0	4.3	6.7	1.558	0.9499
64.4	20.14	11.99	8.15	3.9	4.25	1.090	1.163
64.5	18.60	11.99	6.61	3.65	2.96	0.8110	1.342
64.6	17.82	11.99	5.83	3.55	2.28	0.6423	1.480
64.7	18.04	11.99	6.05	3.9	2.15	0.5513	1.566
64.8	19.34	11.98	7.36	5.2	2.16	0.4154	1.717
64.9	21.10	11.98	9.12	6.8	2.32	0.3412	1.812
65.0	23.68	11.98	11.7	8.6	3.10	0.3605	1.786
65.1	26.28	11.98	14.3	10.1	4.2	0.4158	1.716
65.2	30.18	11.98	18.2	12.1	6.1	0.5041	1.616
65.3	35.48	11.98	23.5	14.2	9.3	0.6549	1.468
65.4	42.48	11.98	30.5	15.2	15.3	1.007	1.211
65.5	55.18	11.98	43.2	15.7	27.5	1.752	0.8830
65.6	69.98	11.98	58.0	14.5	43.5	3.000	0.6075
65.7	54.18	11.98	42.2	10.2	32.0	3.137	0.5874
65.8	31.88	11.98	19.9	6.1	13.8	2.262	0.7449
65.9	23.98	11.98	12.0	5.1	6.9	1.353	1.033

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
66.0	20.28	11.98	8.3	4.5	3.8	0.8444	1.318
66.1	18.63	11.98	6.65	4.2	2.45	0.5833	1.535
66.2	17.79	11.98	5.81	3.85	1.96	0.5091	1.610
66.3	17.18	11.98	5.2	3.38	1.82	0.5385	1.579
66.4	17.03	11.98	5.05	3.2	1.85	0.5781	1.540
66.5	17.05	11.98	5.07	3.0	2.07	0.6900	1.438
66.6	17.78	11.98	5.8	2.7	3.10	1.148	1.131
66.7	19.38	11.98	7.4	2.5	4.9	1.960	0.8209
66.8	21.38	11.98	9.4	2.2	7.2	3.273	0.5687
66.9	21.58	11.98	9.6	2.1	7.5	3.571	0.5316
67.0	18.48	11.98	6.5	2.0	4.5	2.250	0.7477
67.1	16.53	11.98	4.55	1.9	2.65	1.395	1.015
67.2	15.51	11.98	3.53	1.87	1.66	0.8877	1.287
67.3	15.33	11.98	3.35	1.84	1.51	0.8207	1.335
67.4	15.37	11.98	3.39	1.85	1.54	0.8324	1.326
67.5	15.69	11.98	3.71	1.9	1.81	0.9526	1.244
67.6	16.26	11.98	4.28	2.0	2.28	1.140	1.136
67.7	17.05	11.98	5.07	2.14	2.93	1.369	1.026
67.8	18.53	11.98	6.55	2.8	3.75	1.339	1.039
67.9	20.14	11.98	8.16	3.2	4.96	1.550	0.9529
68.0	22.68	11.98	10.7	4.0	6.7	1.675	0.9084
68.1	22.68	11.98	10.7	4.4	6.3	1.432	0.9992
68.2	21.13	11.98	9.15	5.0	4.15	0.8300	1.328
68.3	20.49	11.97	8.52	5.5	3.02	0.5491	1.569
68.4	21.33	11.97	9.36	6.2	3.16	0.5097	1.610
68.5	23.35	11.97	11.38	7.2	4.18	0.5806	1.537
68.6	27.87	11.97	15.9	10.1	5.8	0.5743	1.544
68.7	33.07	11.97	21.1	13.0	8.1	0.6231	1.497
68.8	45.97	11.97	34.0	22.5	11.5	0.5111	1.608
68.9	47.37	11.97	35.4	25.5	9.9	0.3882	1.750
69.0	42.37	11.97	30.4	26.0	4.4	0.1692	2.078
69.1	37.40	11.97	25.43	22.0	3.43	0.1559	2.102
69.2	32.04	11.97	20.07	16.7	3.37	0.2018	2.022
69.3	32.04	11.97	20.07	16.6	3.47	0.2090	2.010
69.4	36.07	11.97	24.1	18.1	6.0	0.3315	1.825
69.5	47.47	11.97	35.5	20.0	15.5	0.7750	1.369
69.6	57.97	11.97	46.0	32.0	14.0	0.4375	1.690
69.7	76.87	11.97	64.9	54.0	10.9	0.2019	2.022
69.8	104.07	11.97	92.1	83.0	9.1	0.1096	2.190
69.9	114.97	11.97	103.0	92.0	11.0	0.1196	2.170
70.0	127.97	11.97	116.30	93.0	23.0	0.2473	1.948

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
70.1	140.97	11.97	129.0	81.0	48.0	0.5926	1.526
70.2	134.47	11.97	122.5	56.0	66.5	1.188	1.111
70.3	116.97	11.97	105.0	42.0	63.0	1.500	0.9720
70.4	83.47	11.97	71.5	34.0	37.5	1.103	1.155
70.5	60.07	11.97	48.1	27.6	20.5	0.7428	1.394
70.6	45.17	11.97	33.2	20.0	13.2	0.6600	1.464
70.7	38.37	11.97	26.4	17.5	8.9	0.5086	1.611
70.8	33.07	11.97	21.1	15.0	6.1	0.4067	1.727
70.9	31.53	11.97	19.56	14.2	5.36	0.3775	1.764
71.0	31.43	11.97	19.46	14.1	5.36	0.3801	1.761
71.1	32.47	11.97	20.5	14.4	6.1	0.4236	1.707
71.2	34.27	11.97	22.3	14.8	7.5	0.5068	1.613
71.3	36.17	11.97	24.2	16.2	8.0	0.4938	1.627
71.4	35.27	11.97	23.3	18.0	5.3	0.2944	1.877
71.5	37.16	11.96	25.2	20.8	4.4	0.2115	2.006
71.6	44.56	11.96	32.6	27.0	5.6	0.2074	2.013
71.7	59.46	11.96	47.5	36.0	11.5	0.3194	1.842
71.8	89.96	11.96	78.0	52.0	26.0	0.5000	1.62
71.9	125.16	11.96	113.2	67.0	46.2	0.6896	1.438
72.0	114.96	11.96	103.0	76.0	27.5	0.3618	1.784
72.1	106.96	11.96	96.0	86.0	10.0	0.1163	2.177
72.2	105.96	11.96	95.0	90.0	5.0	0.0556	2.302
72.3	105.81	11.96	93.85	91.0	2.85	0.0313	2.356
72.4	83.86	11.96	71.90	70.0	1.90	0.0271	2.366
72.5	38.54	11.96	26.58	25.0	1.58	0.0632	2.286
72.6	29.44	11.96	17.48	16.0	1.48	0.0925	2.224
72.7	25.42	11.96	13.46	12.0	1.46	0.1217	2.166
72.8	21.60	11.96	9.64	8.2	1.44	0.1756	2.067
72.9	21.02	11.96	9.06	7.6	1.46	0.1921	2.038
73.0	20.78	11.96	8.82	7.3	1.52	0.2082	2.011
73.1	20.71	11.96	8.75	7.1	1.65	0.2324	1.972
73.2	21.01	11.96	9.05	7.1	1.95	0.2746	1.906
73.3	22.06	11.96	10.1	7.3	2.8	0.3836	1.756
73.4	24.06	11.96	12.1	8.1	4.0	0.4938	1.627
73.5	26.56	11.96	14.6	8.4	6.2	0.7381	1.398
73.6	34.26	11.96	22.3	12.5	9.8	0.7840	1.362
73.7	44.46	11.96	32.5	16.0	16.5	1.031	1.196
73.8	64.96	11.96	53.0	25.0	28.0	1.120	1.146
73.9	103.26	11.96	91.3	52.0	39.3	0.7558	1.384
74.0	116.46	11.96	104.5	66.0	38.5	0.5833	1.535
74.1	112.96	11.96	101.0	71.0	30.0	0.4225	1.708

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
74.2	86.96	11.96	75.0	55.0	20.0	0.3636	1.782
74.3	63.46	11.96	51.5	35.0	16.5	0.4714	1.651
74.4	57.16	11.96	45.2	29.5	15.7	0.5322	1.586
74.5	55.66	11.96	43.7	28.0	15.7	0.5607	1.557
74.6	58.96	11.96	47.0	30.0	17.0	0.5667	1.510
74.7	72.96	11.96	61.0	36.5	24.5	0.6712	1.454
74.8	80.76	11.96	68.8	39.5	29.3	0.7418	1.395
74.9	78.25	11.95	66.3	39.5	26.8	0.6785	1.448
75.0	67.85	11.95	55.9	38.5	17.4	0.4519	1.674
75.1	48.25	11.95	36.3	25.0	11.3	0.4520	1.674
75.2	36.35	11.95	24.4	17.0	7.4	0.4353	1.693
75.3	29.45	11.95	17.5	12.5	5.0	0.400	1.736
75.4	24.33	11.95	12.38	9.0	3.38	0.3756	1.767
75.5	21.36	11.95	9.41	7.0	2.41	0.3443	1.808
75.6	19.39	11.95	7.44	5.7	1.74	0.3053	1.862
75.7	18.52	11.95	6.57	5.0	1.57	0.3140	1.849
75.8	18.33	11.95	6.38	4.7	1.68	0.3574	1.790
75.9	18.89	11.95	6.94	4.5	2.44	0.5422	1.576
76.0	20.08	11.95	8.13	4.6	3.53	0.7674	1.375
76.1	22.45	11.95	10.50	4.7	5.8	1.234	1.088
76.2	24.45	11.95	12.50	4.9	7.6	1.551	0.9526
76.3	23.65	11.95	11.70	5.3	6.4	1.208	1.101
76.4	23.65	11.95	11.7	5.7	6.0	1.053	1.184
76.5	24.70	11.95	12.75	6.3	6.45	1.024	1.201
76.6	28.45	11.95	16.5	7.5	9.0	1.200	1.105
76.7	36.55	11.95	24.6	10.5	14.1	1.343	1.037
76.8	51.75	11.95	39.8	16.0	23.8	1.488	0.9767
76.9	60.75	11.95	48.8	22.0	26.8	1.218	1.096
77.0	41.85	11.95	29.9	25.5	24.4	0.9569	1.242
77.1	52.65	11.95	40.7	23.0	17.7	0.7696	1.373
77.2	48.95	11.95	37.0	19.0	18.0	0.9474	1.248
77.3	52.45	11.95	40.5	18.0	22.5	1.250	1.08
77.4	62.95	11.95	51.0	20.0	31.0	1.55	0.9529
77.5	66.45	11.95	54.5	23.0	31.5	1.370	1.025
77.6	53.45	11.95	41.5	27.0	14.5	0.5371	1.581
77.7	47.55	11.95	35.6	28.0	7.6	0.2714	1.911
77.8	41.15	11.95	29.2	25.0	4.2	0.168	2.080
77.9	29.5	11.95	17.55	15.0	2.55	0.170	2.077
78.0	24.03	11.95	12.08	10.0	2.08	0.208	2.012
78.1	20.98	11.95	9.03	7.0	2.03	0.290	1.884
78.2	19.89	11.95	7.94	5.9	2.04	0.3458	1.806

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
78.3	19.96	11.95	8.01	5.9	2.11	0.3576	1.790
78.4	20.11	11.95	8.16	6.0	2.16	0.3600	1.787
78.5	20.51	11.95	8.56	6.3	2.26	0.3587	1.788
78.6	21.56	11.94	9.62	7.2	2.42	0.3361	1.819
78.7	23.36	11.94	11.42	8.8	2.62	0.2977	1.873
78.8	28.02	11.94	16.08	13.0	3.08	0.2369	1.965
78.9	33.77	11.94	21.83	18.0	3.83	0.2128	2.004
79.0	37.82	11.94	25.88	21.0	4.88	0.2324	1.972
79.1	40.44	11.94	28.5	22.2	6.30	0.2838	1.893
79.2	37.04	11.94	25.1	16.7	8.4	0.5030	1.617
79.3	36.74	11.94	24.8	13.7	11.1	0.8102	1.342
79.4	40.14	11.94	28.2	13.2	15.0	1.136	1.138
79.5	43.34	11.94	31.4	13.7	17.7	1.292	1.060
79.6	43.24	11.94	31.3	15.3	16.0	1.046	1.188
79.7	42.94	11.94	31.0	17.2	13.8	0.8023	1.348
79.8	43.94	11.94	33.0	19.5	13.5	0.6923	1.436
79.9	50.74	11.94	38.8	21.4	17.4	0.8131	1.340
80.0	46.04	11.94	34.1	15.0	19.1	1.273	1.069
80.1	39.84	11.94	27.9	11.5	16.4	1.426	1.002
80.2	36.14	11.94	24.2	10.4	13.8	1.327	1.044
80.3	33.94	11.94	22.0	9.7	12.3	1.268	1.071
80.4	33.24	11.94	21.3	9.5	11.8	1.242	1.084
80.5	35.24	11.94	23.3	10.4	12.9	1.240	1.085
80.6	39.84	11.94	27.9	12.5	15.4	1.232	1.089
80.7	46.54	11.94	34.6	17.0	17.6	1.035	1.194
80.8	47.84	11.94	35.9	19.5	16.4	0.8410	1.320
80.9	43.04	11.94	31.1	18.5	12.6	0.6811	1.445
81.0	32.64	11.94	20.7	11.0	9.7	0.8818	1.2913
81.1	26.44	11.94	14.5	7.0	7.5	1.071	1.173
81.2	24.31	11.94	12.37	6.47	5.9	0.9119	1.271
81.3	22.99	11.94	11.05	6.35	4.7	0.7402	1.396
81.4	22.26	11.94	10.32	6.42	3.9	0.6075	1.512
81.5	22.99	11.94	11.05	7.1	3.95	0.5563	1.561
81.6	26.14	11.94	14.2	9.0	5.2	0.5778	1.540
81.7	31.34	11.94	19.4	12.0	7.4	0.6167	1.503
81.8	39.94	11.94	28.0	17.0	11.0	0.6471	1.475
81.9	52.94	11.94	41.0	23.0	18.0	0.7826	1.363
82.0	69.74	11.94	57.8	23.8	34.0	1.429	1.000
82.1	66.74	11.94	54.8	16.0	38.8	2.425	0.7094
82.2	60.54	11.94	48.6	12.6	36.0	2.857	0.6300
82.3	49.14	11.94	37.2	11.2	26.0	2.321	0.7317

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
82.4	42.24	11.94	30.3	11.1	19.2	1.730	0.8901
82.5	38.74	11.94	26.8	12.2	14.6	1.197	1.106
82.6	39.53	11.93	27.6	14.5	13.1	0.9034	1.277
82.7	47.73	11.93	35.8	22.0	13.8	0.6273	1.493
82.8	57.53	11.93	45.6	29.0	16.6	0.5724	1.545
82.9	66.23	11.93	54.3	32.5	21.8	0.6708	1.454
83.0	77.23	11.93	65.3	36.5	28.8	0.7890	1.358
83.1	93.93	11.93	82.0	43.0	39.0	0.9070	1.274
83.2	105.23	11.93	93.3	46.5	46.8	1.006	1.211
83.3	110.93	11.93	99.0	53.0	46.0	0.8679	1.301
83.4	112.73	11.93	100.8	61.0	39.8	0.6525	1.470
83.5	115.63	11.93	103.7	69.0	34.7	0.5029	1.617
83.6	116.63	11.93	104.7	73.0	31.7	0.4342	1.694
83.7	92.63	11.93	80.7	52.0	28.7	0.5519	1.566
83.8	82.03	11.93	70.1	44.0	26.1	0.5932	1.525
83.9	75.03	11.93	63.1	39.0	24.1	0.6179	1.502
84.0	70.93	11.93	59.0	37.3	21.7	0.5818	1.536
84.1	67.43	11.93	55.5	35.7	19.8	0.5546	1.563
84.2	63.63	11.93	51.7	34.0	17.7	0.5206	1.598
84.3	60.33	11.93	48.4	32.5	15.9	0.4892	1.632
84.4	55.93	11.93	44.0	29.8	14.2	0.4765	1.646
84.5	49.73	11.93	37.8	25.0	12.8	0.5120	1.607
84.6	46.35	11.93	34.5	23.1	11.4	0.4935	1.627
84.7	42.13	11.93	30.2	20.0	10.2	0.51	1.609
84.8	37.93	11.93	26.0	17.0	9.0	0.5294	1.589
84.9	34.73	11.93	22.8	14.8	8.0	0.5405	1.577
85.0	30.93	11.93	19.0	12.0	7.0	0.5833	1.535
85.1	27.56	11.93	15.63	9.5	6.13	0.6453	1.477
85.2	25.66	11.93	13.73	8.4	5.33	0.6345	1.487
85.3	24.08	11.93	12.15	7.5	4.65	0.62	1.500
85.4	22.70	11.93	10.77	6.8	3.97	0.5838	1.534
85.5	21.98	11.93	10.05	6.7	3.35	0.5000	1.620
85.6	21.64	11.93	9.71	6.7	3.01	0.4493	1.677
85.7	23.30	11.93	11.37	8.5	2.87	0.3376	1.817
85.8	23.49	11.93	11.56	8.7	2.86	0.3287	1.829
85.9	25.33	11.93	13.4	10.4	3.0	0.2885	1.886
86.0	28.53	11.93	16.6	12.6	4.0	0.3175	1.844
86.1	31.53	11.93	19.6	14.1	5.5	0.3901	1.748
86.2	32.73	11.93	20.8	12.9	7.9	0.6124	1.507
86.3	31.53	11.93	19.6	9.6	10.0	1.042	1.190
86.4	30.43	11.93	18.5	9.2	9.3	1.011	1.208

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
86.5	28.63	11.93	16.7	9.3	7.4	0.7956	1.353
86.6	28.98	11.93	17.05	11.1	5.95	0.5360	1.582
86.7	30.28	11.93	18.35	12.9	5.45	0.4225	1.708
86.8	34.53	11.93	22.6	14.6	8.0	0.5479	1.570
86.9	35.63	11.93	23.7	14.0	9.7	0.6929	1.435
87.0	33.53	11.93	21.6	13.2	8.4	0.6364	1.485
87.1	30.83	11.93	18.9	12.5	6.4	0.5120	1.607
87.2	30.03	11.93	18.1	13.2	4.9	0.3712	1.772
87.3	32.03	11.93	20.1	16.0	4.1	0.2563	1.934
87.4	34.37	11.93	22.44	18.5	3.94	0.2130	2.003
87.5	38.23	11.93	26.3	22.0	4.3	0.1955	1.107
87.6	43.03	11.93	31.1	25.7	5.4	0.2101	2.008
87.7	49.93	11.93	38.0	31.0	7.0	0.2258	1.982
87.8	58.03	11.93	46.1	37.0	9.1	0.2459	1.950
87.9	66.83	11.93	54.9	43.0	11.9	0.2767	1.903
88.0	73.03	11.93	61.1	45.4	15.7	0.3458	1.806
88.1	76.63	11.93	64.7	44.0	20.7	0.4705	1.652
88.2	68.93	11.93	57.0	35.0	22.0	0.6286	1.492
88.3	59.83	11.93	47.9	27.0	20.9	0.7741	1.370
88.4	51.83	11.93	39.9	23.8	16.1	0.6765	1.449
88.5	43.52	11.92	31.6	20.0	11.6	0.5800	1.538
88.6	39.12	11.92	27.2	18.6	8.6	0.4624	1.662
88.7	35.82	11.92	23.9	17.4	6.5	0.3736	1.769
88.8	35.77	11.92	23.85	18.4	5.45	0.2962	1.875
88.9	37.52	11.92	25.6	20.0	5.6	0.280	1.898
89.0	40.32	11.92	28.4	22.0	6.4	0.2909	1.882
89.1	45.62	11.92	33.7	26.0	7.7	0.2962	1.875
89.2	52.72	11.92	40.8	31.5	9.3	0.3049	1.862
89.3	57.32	11.92	45.4	34.2	11.2	0.3275	1.831
89.4	61.22	11.92	49.3	34.0	15.3	0.4500	1.676
89.5	60.92	11.92	49.0	30.0	19.0	0.6333	1.488
89.6	60.32	11.92	48.4	26.0	22.4	0.8615	1.305
89.7	57.62	11.92	45.7	22.0	23.7	1.077	1.170
89.8	54.52	11.92	42.6	20.0	22.6	1.130	1.141
89.9	48.52	11.92	36.6	18.0	18.6	1.033	1.195
90.0	45.02	11.92	33.1	17.3	15.8	0.9133	1.270
90.1	43.92	11.92	32.0	18.0	14.0	0.7778	1.367
90.2	45.22	11.92	33.3	20.8	12.5	0.6010	1.518
90.3	48.72	11.92	36.8	25.0	11.8	0.4720	1.651
90.4	54.22	11.92	42.3	31.0	11.3	0.3645	1.781
90.5	60.32	11.92	48.4	37.2	11.2	0.3010	1.868

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
90.6	59.12	11.92	47.2	36.0	11.2	0.3111	1.853
90.7	54.22	11.92	42.3	31.0	11.3	0.3645	1.781
90.8	49.22	11.92	37.3	26.0	11.3	0.4346	1.694
90.9	45.42	11.92	33.5	22.0	11.5	0.5227	1.596
91.0	43.92	11.92	32.0	20.3	11.7	0.5764	1.541
91.1	44.62	11.92	32.7	20.5	12.2	0.5951	1.523
91.2	47.52	11.92	35.6	23.0	12.6	0.5478	1.570
91.3	52.32	11.92	40.4	27.0	13.4	0.4963	1.624
91.4	56.62	11.92	44.7	30.8	13.9	0.4513	1.674
91.5	62.62	11.92	50.7	34.7	16.0	0.4611	1.663
91.6	64.12	11.92	52.2	33.0	19.2	0.5818	1.536
91.7	60.22	11.92	48.3	27.8	20.5	0.7374	1.399
91.8	53.92	11.92	42.0	25.9	16.1	0.6216	1.499
91.9	49.62	11.92	37.7	24.0	13.7	0.5708	1.547
92.0	45.22	11.92	33.3	21.7	11.6	0.5346	1.583
92.1	35.82	11.92	23.9	13.5	10.4	0.7704	1.373
92.2	31.12	11.92	19.2	10.0	9.2	0.9200	1.266
92.3	29.32	11.92	17.4	9.0	8.4	0.9333	1.257
92.4	28.32	11.92	16.4	8.3	8.1	0.9759	1.230
92.5	27.62	11.92	15.7	7.7	8.0	1.039	1.192
92.6	27.32	11.92	15.4	7.4	8.0	1.081	1.168
92.7	27.72	11.92	15.8	7.7	8.1	1.052	1.184
92.8	29.12	11.92	17.2	9.0	8.2	0.9111	1.272
92.9	30.12	11.92	18.2	9.8	8.4	0.8571	1.308
93.0	36.62	11.92	24.7	16.0	8.7	0.5438	1.574
93.1	40.92	11.92	29.0	19.7	9.3	0.4721	1.651
93.2	42.02	11.92	30.1	19.0	11.1	0.5842	1.534
93.3	41.41	11.91	29.5	15.7	13.8	0.8790	1.293
93.4	43.91	11.91	32.0	13.5	18.5	1.370	1.025
93.5	43.61	11.91	31.7	10.0	21.7	2.17	0.7666
93.6	40.41	11.91	28.5	8.5	20.0	2.353	0.7247
93.7	36.91	11.91	25.0	7.7	17.3	2.247	1.081
93.8	34.21	11.91	22.3	7.3	15.0	2.055	0.7954
93.9	30.81	11.91	18.9	7.2	11.7	1.625	0.9257
94.0	29.51	11.91	17.6	7.2	10.4	1.444	0.9943
94.1	29.11	11.91	17.2	7.8	9.4	1.205	1.102
94.2	29.41	11.91	17.5	8.8	8.7	0.9886	1.222
94.3	30.11	11.91	18.2	9.7	8.5	0.8763	1.295
94.4	31.61	11.91	19.7	11.3	8.4	0.7434	1.394
94.5	33.96	11.91	22.05	13.5	8.55	0.6333	1.488
94.6	36.29	11.91	24.38	15.5	8.88	0.5729	1.545

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
94.7	39.46	11.91	27.55	18.3	9.25	0.5056	1.614
94.8	39.86	11.91	27.95	18.2	9.75	0.5357	1.582
94.9	38.61	11.91	26.7	16.4	10.3	0.6280	1.493
95.0	37.91	11.91	26.0	15.4	10.6	0.6883	1.439
95.1	37.31	11.91	25.4	14.8	10.6	0.7162	1.416
95.2	36.81	11.91	24.9	14.4	10.5	0.7292	1.405
95.3	35.81	11.91	23.9	13.5	10.4	0.7704	1.373
95.4	34.81	11.91	22.9	12.7	10.2	0.8031	1.348
95.5	33.81	11.91	21.9	12.1	9.8	0.7982	1.351
95.6	32.41	11.91	20.5	11.4	9.1	0.7982	1.351
95.7	30.21	11.91	18.3	10.5	7.8	0.7429	1.394
95.8	26.61	11.91	15.7	9.5	6.2	0.6526	1.470
95.9	25.11	11.91	13.2	8.2	5.0	0.6098	1.510
96.0	22.71	11.91	10.8	6.7	4.1	0.6119	1.508
96.1	21.58	11.91	9.67	6.3	3.37	0.5349	1.583
96.2	20.99	11.91	9.08	6.3	2.78	0.4413	1.686
96.3	20.64	11.91	8.73	6.4	2.33	0.3641	1.781
96.4	20.48	11.91	8.57	6.6	1.97	0.2985	1.871
96.5	21.27	11.91	9.36	7.5	1.86	0.2480	1.947
96.6	23.77	11.91	11.86	10.0	1.86	0.1860	2.049
96.7	26.61	11.91	14.7	12.7	2.0	0.1575	2.099
96.8	29.91	11.91	18.0	15.0	3.0	0.2000	2.025
96.9	36.91	11.91	25.0	20.0	5.0	0.2500	1.944
97.0	50.71	11.91	38.8	28.3	10.5	0.3710	1.772
97.1	64.31	11.91	52.4	31.4	21.0	0.6688	1.456
97.2	64.01	11.91	52.1	30.5	21.6	0.7082	1.423
97.3	54.91	11.91	43.0	24.5	18.5	0.7551	1.385
97.4	44.61	11.91	32.7	19.5	13.2	0.6769	1.449
97.5	37.01	11.91	25.1	15.5	9.6	0.6194	1.501
97.6	31.71	11.91	19.8	12.7	7.1	0.5591	1.559
97.7	26.41	11.91	14.5	9.0	5.5	0.6111	1.508
97.8	23.71	11.91	11.8	7.5	4.3	0.5733	1.545
97.9	21.31	11.91	9.4	6.0	3.4	0.5667	1.551
98.0	20.37	11.91	8.46	5.7	2.76	0.4842	1.637
98.1	20.36	11.91	8.45	5.7	2.75	0.4825	1.639
98.2	20.91	11.91	9.0	6.1	2.9	0.4754	1.647
98.3	22.31	11.91	10.4	7.0	3.4	0.4857	1.636
98.4	23.11	11.91	12.1	7.9	4.2	0.5316	1.5866
98.5	25.51	11.91	13.6	8.2	5.4	0.6585	1.465
98.6	26.61	11.91	14.7	7.9	6.8	0.8608	1.306
98.7	28.01	11.91	16.1	7.4	8.7	1.176	1.117

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
98.8	28.31	11.91	16.4	7.2	9.2	1.278	1.067
98.9	26.06	11.91	14.15	7.15	7.0	0.9790	1.228
99.0	23.81	11.91	11.9	7.4	5.5	0.7432	1.394
99.1	26.36	11.91	14.45	9.0	5.45	0.6056	1.513
99.2	28.16	11.91	16.25	10.8	5.45	0.5046	1.615
99.3	28.61	11.91	16.7	11.2	5.5	0.4911	1.630
99.4	28.41	11.91	16.5	10.8	5.7	0.5278	1.591
99.5	27.51	11.91	15.6	9.6	6.0	0.6250	1.495
99.6	27.90	11.90	16.0	9.5	6.5	0.6842	1.443
99.7	28.80	11.90	16.9	9.7	7.2	0.7423	1.395
99.8	29.80	11.90	17.9	10.0	7.9	0.79	1.358
99.9	31.20	11.90	19.3	10.8	8.5	0.787	1.360
100.0	32.20	11.90	20.3	11.4	8.9	0.7807	1.365
100.3	29.02	11.90	17.12	11.41	5.705	0.50	1.62
100.5	32.23		20.33	13.55	6.775		
100.8	33.38		21.48	14.32	7.160		
101.1	32.77		20.87	13.91	6.955		
101.4	36.56		24.66	16.44	8.22		
101.6	28.03		16.13	10.75	5.375		
101.9	27.41		15.51	10.34	5.17		
102.2	23.89		11.99	7.99	3.995		
102.5	25.91		14.01	9.34	4.67		
102.8	27.94		16.04	10.69	5.345		
103.0	51.79		39.89	26.59	13.295		
103.3	78.77		66.87	44.58	22.29		
103.6	72.56		60.66	40.44	20.22		
103.9	55.96		44.06	29.37	14.69		
104.2	46.34		34.44	22.96	11.48		
104.5	35.60		23.7	15.80	7.9		
104.8	30.68		18.78	12.52	6.26		
105.1	34.10		22.2	14.80	7.40		
105.3	61.7		49.8	33.20	16.60		
105.6	73.72		61.82	41.21	20.61		
105.9	61.0		49.10	32.73	16.37		
106.2	52.04		40.14	26.76	13.38		
106.5	41.39		29.49	19.66	9.83		
106.8	36.77		24.87	16.58	8.29		
107.1	32.74		20.84	13.89	6.95		
107.4	28.15		16.25	10.83	5.42		
107.7	37.81		25.91	17.27	8.635		
108.0	55.97		44.07	29.38	14.69		

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
108.3	50.51	11.90	38.61	25.74	12.87	0.50	1.62
108.6	32.03		20.13	13.42	6.71		
108.9	32.29		20.39	13.59	6.795		
109.3	32.26		20.36	13.57	6.785		
109.6	32.31	11.98	20.33	13.55	6.775		
109.9	29.19		17.21	11.47	5.735		
110.2	35.64		23.66	15.77	7.885		
110.5	40.09		28.11	18.74	9.37		
110.8	32.47		20.49	13.66	6.83		
111.1	22.84		10.94	7.29	3.645		
111.5	26.73	11.89	14.84	9.89	4.95		
111.8	26.70		14.81	9.87	4.94		
112.1	34.77		22.88	15.25	7.63		
112.4	26.67		14.78	9.85	4.93		
112.7	20.25		8.36	5.57	2.79		
113.1	23.56		11.67	7.78	3.89		
113.4	26.05		14.16	9.44	4.72		
113.7	36.84		24.95	16.63	8.32		
114.0	48.42		36.53	24.35	12.18		
114.4	35.11		23.22	15.48	7.74		
114.7	27.07		15.18	10.12	5.06		
115.0	22.38		10.49	6.99	3.50		
115.4	25.72		13.83	9.22	4.61		
115.7	37.96		26.07	17.38	8.69		
116.0	56.59		44.7	29.80	14.9		
116.4	74.88		62.99	41.99	21.0		
116.7	60.34		48.45	32.30	16.15		
117.1	34.77		22.88	15.25	7.63		
117.4	27.94		16.05	10.70	5.35		
117.6	32.76		20.87	13.91	6.96		
118.1	41.02		29.13	19.42	9.71		
118.4	62.61		50.72	33.81	16.91		
118.8	75.60		63.71	42.47	21.24		
119.2	71.40		59.51	39.67	19.84		
119.5	62.94		51.05	34.03	17.02		
119.9	45.33		33.44	22.29	11.15		
120.2	35.29		23.40	15.60	7.80		
120.6	30.18	11.88	18.3	12.20	6.10		
120.9	30.44		18.56	12.37	6.19		
121.3	33.68		21.80	14.53	7.27		
121.7	33.09		21.21	14.14	7.07		

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
122.0	68.37	11.88	56.49	37.66	18.83	0.50	1.62
122.4	116.01		104.13	69.42	34.71		
122.8	83.64		71.76	47.84	23.92		
123.1	37.70		25.82	17.21	8.61		
123.5	23.36		11.48	7.65	3.83		
123.9	26.43		14.55	9.70	4.85		
124.2	27.70		15.82	10.59	5.23		
124.6	28.82		16.94	11.29	5.65		
125.0	41.81		29.93	19.95	9.98		
125.4	55.16		43.28	28.85	14.43		
125.8	52.14		40.26	26.84	13.42		
126.1	68.91		57.03	38.02	19.01		
126.5	102.83		90.95	60.63	30.32		
126.9	93.90		82.02	54.68	27.34		
127.3	65.60		53.72	35.81	17.91		
127.7	41.22		29.34	19.56	9.78		
128.1	40.11		28.23	18.82	9.41		
128.5	46.02		34.14	22.76	11.38		
128.9	43.59		31.71	21.14	10.57		
129.3	36.29		24.41	16.27	8.14		
129.7	28.49		16.61	11.07	5.54		
130.1	36.74		24.86	16.57	8.29		
130.5	38.28		26.40	17.60	8.80		
130.9	24.60		12.72	8.48	4.24		
131.3	37.14		25.26	16.84	8.42		
131.7	57.77		45.89	30.59	15.30		
132.1	66.69		54.81	36.54	18.27		
132.5	66.34	11.87	54.47	36.31	18.16		
132.9	64.97		53.10	35.40	17.7		
133.3	64.09		52.22	34.81	17.41		
133.7	69.59		57.72	38.48	19.24		
134.2	75.71		63.84	42.56	21.28		
134.6	50.14		38.27	25.51	12.76		
135.0	39.89		28.02	18.68	9.34		
135.4	63.94		52.07	34.71	17.36		
135.9	113.02		101.15	67.43	33.72		
136.3	82.54		70.67	47.11	23.56		
136.7	60.37		48.50	32.33	16.17		
137.2	44.92		33.05	22.03	11.02		
137.6	30.55		18.68	12.45	6.23		
138.0	40.34		28.47	18.98	9.49		

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
138.5	34.18	11.87	22.21	14.87	7.44	0.50	
138.9	23.45		11.58	7.72	3.86		
139.4	22.42		10.55	7.03	3.52		
139.8	25.07		13.20	8.80	4.4		
140.3	26.81		14.94	9.96	4.98		
140.7	36.28		24.41	16.27	8.14		
141.2	33.46		21.59	14.39	7.20		
141.6	27.76		15.89	10.59	5.30		
142.1	38.68		26.81	17.87	8.94		
142.5	62.12		50.25	33.50	16.75		
143.0	61.28		49.41	32.94	16.47		
143.5	41.18		29.31	19.54	9.77		
143.9	25.37		13.50	9.00	4.5		
144.4	26.35		14.48	9.65	4.83		
144.9	29.56	11.86	17.70	11.80	5.90		
145.3	29.28		17.42	11.61	5.81		
145.8	49.50		37.64	25.09	12.55		
146.3	79.57		67.71	45.14	22.57		
146.8	46.29		34.43	22.95	11.48		
147.2	32.55		20.64	13.76	6.88		
147.7	44.94		33.08	22.05	11.03		
148.2	45.13		33.27	22.18	11.09		
148.7	29.58		17.72	11.81	5.91		
149.2	37.77		25.91	17.27	8.64		
149.7	64.95		53.09	35.39	17.70		
150.2	60.82		48.96	32.64	16.32		
150.7	46.57		34.71	23.14	11.57		
151.2	31.38		19.52	13.01	6.51		
151.7	27.45		15.59	10.39	5.20		
152.2	21.46		9.60	6.40	3.2		
152.7	23.16		11.30	7.53	3.77		
153.2	22.17		10.31	6.87	3.44		
153.7	44.04		32.18	21.45	10.73		
154.3	58.03		46.17	30.78	15.39		
154.8	41.04		29.18	19.45	9.73		
155.3	33.64		21.78	14.52	7.26		
155.8	40.95		29.09	19.39	9.70		
156.4	38.85		26.99	17.99	9.0		
156.9	50.07		38.21	25.47	12.74		
157.4	54.30		42.44	28.29	14.15		
158.0	37.53		25.67	17.11	8.56		

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
158.5	28.06	11.86	16.20	16.80	5.4	0.5	1.62
159.0	33.86	11.85	22.01	14.67	7.34		
159.6	48.3		36.45	24.30	12.15		
160.1	40.77		28.92	19.28	9.64		
160.7	29.84		17.99	11.99	6.00		
161.2	33.71		21.86	14.57	7.29		
161.8	42.27		30.42	20.28	10.14		
162.3	34.80		22.95	15.30	7.65		
162.9	31.95		20.10	13.40	6.70		
163.5	37.31		25.46	16.97	8.49		
164.0	53.43		41.58	27.72	13.86		
164.6	59.33		47.48	31.65	15.83		
165.2	32.97		21.12	14.08	7.04		
165.7	26.54		14.69	9.79	4.90		
166.3	42.78		30.93	20.62	10.31		
166.9	50.73		38.88	25.92	12.96		
167.5	44.52		32.67	21.78	10.89		
168.1	36.96		25.11	16.74	8.37		
168.7	55.50		43.65	29.10	14.55		
169.3	53.82		41.97	27.98	13.99		
169.9	44.54		32.69	21.79	10.90		
170.5	41.49		29.64	19.76	9.88		
171.1	31.70		19.85	13.23	6.62		
171.7	27.20		15.35	10.23	5.12		
172.3	30.71		18.86	12.57	6.29		
172.9	30.68		18.83	12.55	6.28		
173.5	26.43		14.58	9.72	4.86		
174.1	30.84		18.99	12.66	6.33		
174.8	50.75	11.84	38.91	25.94	12.97		
175.4	62.69		50.85	33.90	16.95		
176.0	46.33		34.49	22.99	11.50		
176.7	37.25		25.40	16.93	8.47		
177.3	56.46		44.61	29.74	14.87		
177.9	78.30		66.45	44.30	22.15		
178.6	101.43		89.58	59.72	29.86		
179.2	58.91		47.06	31.37	15.69		
179.9	36.57		24.72	16.48	8.24		
180.5	35.85		24.0	16.00	8.00		
181.2	52.64		40.79	27.19	13.60		
181.9	45.32		33.48	22.32	11.16		
182.5	42.485		30.645	20.43	10.215		

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
183.2	48.53	11.84	36.69	24.46	12.23	0.50	1.62
183.9	32.525		20.685	13.79	6.895		
184.5	28.40		16.56	11.04	5.52		
185.2	22.31		10.47	6.98	3.49		
185.9	21.41		9.57	6.38	3.19		
186.6	22.235		10.395	6.93	3.465		
187.3	26.96		15.12	10.08	5.04		
188.0	28.685		16.845	11.23	5.615		
188.7	25.595		13.755	9.17	4.585		
189.4	22.19		10.35	6.90	3.45		
190.1	32.18		20.34	13.56	6.78		
190.8	44.96		33.12	22.08	11.04		
191.5	32.755	11.83	20.925	13.95	6.975		
192.2	28.27		16.44	10.96	5.48		
193.0	52.435		40.605	27.07	13.535		
193.7	60.01		48.18	32.12	16.060		
194.4	34.96		23.13	15.42	7.71		
195.2	44.155		32.325	21.55	10.445		
195.9	33.805		21.975	14.65	7.325		
196.6	23.59		11.76	7.84	3.92		
197.4	23.575		11.745	7.83	3.915		
198.1	34.735		22.905	15.27	7.635		
198.9	47.89		36.06	24.04	12.02		
199.7	67.675		55.845	37.23	18.615		
200.4	62.365		50.535	33.69	16.845		
201.2	78.235		66.405	44.27	22.135		
202.0	65.665		53.835	35.89	17.945		
202.7	35.95		24.120	16.08	8.04		
203.5	32.965		21.135	14.09	7.045		
204.3	37.645		25.815	17.21	8.605		
205.1	42.415		30.585	20.39	10.195		
205.9	26.26		14.43	9.62	4.81		
206.7	25.39		13.56	9.04	4.52		
207.5	31.93		20.10	13.40	6.70		
208.3	44.56		32.73	21.82	10.91		
209.1	30.61		18.78	12.52	6.26		
210.0	24.45	11.82	12.63	8.42	4.21	0.4998	1.620
210.8	25.24		13.42	8.95	4.47		
211.6	27.87		15.45	10.30	5.15		
212.4	37.75		25.93	17.29	8.64		
213.3	35.44		23.62	15.75	7.87		

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
214.1	42.27	11.82	30.45	20.30	10.15	0.4998	1.620
215.0	63.58		51.76	34.51	17.25		
215.9	42.75		30.93	20.62	10.31		
216.7	30.46		18.64	12.43	6.21		
217.6	30.84		19.02	12.68	6.34		
218.4	40.84		29.02	19.35	9.67		
219.3	31.17		19.35	12.90	6.45		
220.2	34.15		22.33	14.89	7.44	0.4997	
221.1	48.34		36.52	24.35	12.17		
222.0	81.98		70.16	46.78	23.38		
222.9	67.67		55.85	37.24	18.61		
223.8	54.53		42.71	28.48	14.23		
224.7	55.54		43.72	29.15	14.57	0.4996	
225.6	56.65		44.83	29.89	14.94		
226.5	54.37		42.55	28.37	14.18		
227.5	41.76		29.94	19.96	9.98		
228.4	40.19	11.81	28.38	18.92	9.46		
229.3	29.54		17.73	11.82	5.91		
230.3	36.72		24.91	16.61	8.30	0.4995	1.621
231.2	32.42		20.61	13.74	6.87		
232.2	54.04		42.23	28.16	14.07		
233.1	62.10		50.29	33.53	16.76		
234.1	54.25		42.44	28.30	14.14		
235.1	49.77		37.96	25.31	12.65	0.4994	
236.0	33.57		21.76	14.51	7.25		
237.0	23.69		11.88	7.92	3.96		
238.0	23.67		11.86	7.91	3.95		
239.0	25.77		13.96	9.31	4.65		
240.0	36.59		24.78	16.52	8.26	0.4993	
241.0	47.16		35.35	23.57	11.78		
242.0	66.26		54.45	36.32	18.13		
243.1	84.03		72.22	48.17	24.05		
244.1	41.84		30.03	20.03	10.0		
245.1	31.83		20.02	13.35	6.67		
246.2	33.11		21.30	14.21	7.09	0.4992	
247.2	42.99		31.18	20.80	10.38		
248.3	35.97	11.80	24.17	16.12	8.05		
249.3	42.08		30.28	20.20	10.08		
250.4	49.88		38.08	25.40	12.68	0.4991	
251.5	32.88		21.08	14.06	7.02		
252.6	29.82		18.02	12.02	6.0		

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
253.7	45.02	11.80	33.22	22.16	11.06	0.4990	1.621
254.8	54.91		43.11	28.76	14.35		
255.9	46.47		34.67	23.13	11.54		
257.0	34.43		22.63	15.10	7.53	0.4989	
258.1	36.62		24.82	16.56	8.26		
259.2	25.77		13.97	9.32	4.65		
260.4	26.29		14.49	9.67	4.82	0.4988	
261.5	43.59		31.79	21.21	10.58		
262.6	78.11		66.31	44.24	22.07		
263.8	79.62		67.82	45.25	22.57		
265.0	40.25		28.45	18.98	9.47	0.4987	
266.1	29.90		18.10	12.08	6.02		
267.3	42.69		30.89	20.61	10.28		
268.5	56.16		44.36	29.60	14.76		
270.7	48.49		36.69	24.48	12.21	0.4986	1.622
271.9	48.76	11.79	36.97	24.67	12.30		
272.1	60.12		48.33	32.25	16.08		
273.3	49.49		37.70	25.16	12.54	0.4985	
274.5	65.06		53.27	35.55	17.72		
275.8	43.47		31.68	21.14	10.54		
277.0	32.41		20.62	13.76	6.86	0.4984	
278.3	55.17		43.38	28.95	14.43		
279.5	51.50		39.71	26.50	13.21		
280.8	45.59		33.80	22.56	11.24	0.4983	
282.1	57.11		45.32	30.25	15.07		
283.4	33.86		22.07	14.73	7.34		
284.7	23.34		11.55	7.71	3.84	0.4982	
286.0	21.89		10.10	6.74	3.36		
287.3	26.37		14.58	9.73	4.85		
288.6	33.84		22.05	14.72	7.33		
289.9	40.02	11.78	28.24	18.85	9.39	0.4981	
291.3	56.02		44.24	29.53	14.71		
292.6	48.74		36.96	24.67	12.29	0.4980	
293.1	26.55		14.77	9.86	4.91		
295.4	24.33		12.55	8.38	4.17		
296.7	23.78		12.00	8.01	3.99	0.4979	
298.1	31.48		19.70	13.15	6.55		
299.5	31.25		19.47	13.0	6.47		
300.9	40.70		28.92	19.31	9.61	0.4978	
302.4	26.16		14.38	9.60	4.78		
303.8	28.88		17.10	11.42	5.68	0.4977	

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
305.2	30.04	11.78	18.26	12.19	6.07	0.4976	1.623
306.7	36.41		24.63	16.45	8.18	0.4975	
308.1	30.12		18.34	12.25	6.09	.	
309.6	26.50		14.72	9.83	4.89	0.4974	
311.1	24.18		12.40	8.28	4.12		
312.6	22.79		11.01	7.35	3.66	0.4973	
314.1	26.74		14.96	9.99	4.97	0.4972	
315.6	33.86		22.08	14.75	7.33		
317.1	38.42	11.77	26.65	17.80	8.85	0.4971	
318.6	38.87		27.10	18.10	9.0		
320.2	29.76		17.99	12.02	5.97	0.4970	
321.7	29.72		17.95	11.99	5.96		
323.3	27.17		15.40	10.29	5.11	0.4969	
324.9	42.67		30.90	20.64	10.26		
326.5	57.00		45.23	30.22	15.01	0.4968	
328.1	45.33		33.56	22.42	11.14		
329.7	35.01		23.24	15.53	7.71	0.4967	1.624
331.3	34.62		22.85	15.27	7.58	0.4966	
332.9	32.11		20.34	13.59	6.75		
334.6	36.72		24.95	16.67	8.28	0.4965	
336.3	36.49		24.72	16.52	8.20	0.4964	
337.9	38.06		26.29	17.57	8.72		
339.6	32.72		20.95	14.00	6.95	0.4963	
341.3	41.57		29.80	19.92	9.88	0.4962	
343.0	48.36	11.76	36.60	24.46	12.14		
344.8	39.24		27.48	18.37	9.11	0.4961	
346.5	43.43		31.67	21.17	10.50	0.4960	
348.3	33.41		21.65	14.47	7.18		
350.0	39.34		27.58	18.44	9.14	0.4959	
351.8	33.45		21.69	14.50	7.19	0.4958	1.625
353.6	32.76		21.0	14.04	6.96	0.4957	
355.4	36.59		24.83	16.60	8.23	0.4956	
357.2	35.03		23.27	15.56	7.71	0.4955	
359.1	36.46		24.70	16.52	8.18	0.4954	
360.9	28.69		16.93	11.32	5.61	0.4953	
362.8	33.11		21.35	14.28	7.071	0.4952	
364.6	35.17		23.41	15.66	7.75	0.4951	
366.5	33.47		21.71	14.52	7.19	0.4950	
368.4	35.20		23.44	15.68	7.76	0.4949	1.626
370.4	24.88		13.12	8.78	4.34	0.4948	
372.3	22.44	11.75	10.69	7.15	3.54	0.4947	

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
374.3	29.83	11.75	18.08	12.10	5.98	0.4946	1.626
376.2	25.39		13.64	9.13	4.51	0.4944	
378.2	23.27		11.52	7.71	3.81	0.4943	
380.2	28.23		16.48	11.03	5.45	0.4942	
382.2	34.37		22.62	15.14	7.48	0.4941	
384.2	35.91		24.16	16.17	7.99	0.4940	1.627
386.3	30.29		18.54	12.41	6.13	0.4939	
388.4	48.06		36.31	24.31	12.00	0.4938	
390.4	33.07		21.32	14.27	7.05	0.4937	
392.5	29.01		17.26	11.56	5.71	0.4935	
394.6	20.77		9.02	6.04	2.98	0.4933	
396.8	23.29		11.54	7.73	3.81	0.4931	
398.9	29.55		17.80	11.92	5.88	0.4929	1.628
401.1	26.14		14.39	9.64	4.75	0.4927	
403.3	24.16	11.74	12.42	8.32	4.10	0.4925	
405.5	25.31		13.57	9.09	4.48	0.4923	
407.7	28.88		17.14	11.49	5.65	0.4919	1.629
409.9	30.46		18.72	12.55	6.17	0.4917	
412.2	28.12		16.38	10.98	5.40	0.4915	
414.5	20.82		9.08	6.09	2.99	0.4913	
416.7	22.25		10.51	7.05	3.46	0.4911	1.630
419.1	29.79		18.05	12.11	5.94	0.4909	
421.4	35.19		23.45	15.73	7.72	0.4907	
423.7	34.41		22.67	15.21	7.46	0.4905	
426.1	30.65		18.91	12.69	6.22	0.4904	
428.5	39.82		28.08	18.84	9.24	0.4903	1.631
430.9	33.20		21.46	14.40	7.06	0.4901	
433.3	36.58		24.84	16.67	8.17	0.4899	
435.8	37.07	11.73	25.34	17.01	8.33	0.4897	
438.3	42.25		30.52	20.49	10.03	0.4895	
440.8	28.90		17.17	11.53	5.64	0.4893	1.632
443.3	39.59		27.86	18.71	9.15	0.4891	1.633
445.8	41.34		29.61	19.89	9.72	0.4889	
448.4	27.12		15.39	10.34	5.05	0.4887	
451.0	24.00		12.27	8.24	4.03	0.4885	
453.5	30.32		18.59	12.49	6.10	0.4883	
456.2	25.87		14.14	9.50	4.64	0.4881	
458.8	26.67		14.94	10.04	4.90	0.4878	
461.5	24.54		12.81	8.61	4.20	0.4876	1.634
464.2	33.76		22.03	14.81	7.22	0.4874	
466.9	45.67		33.94	22.82	11.12	0.4872	

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
469.7	34.98	11.72	23.26	15.64	7.62	0.4870	1.634
472.4	31.97		20.25	13.62	6.63	0.4868	
475.2	22.77		11.05	7.43	3.62	0.4866	1.635
478.0	25.38		13.66	9.19	4.47	0.4864	
480.9	23.58		11.86	7.98	3.88	0.4862	
483.7	40.71		28.99	19.51	9.48	0.4860	
486.6	39.74		28.02	18.86	9.16	0.4858	
489.5	30.38		18.66	12.56	6.10	0.4856	1.636
492.5	33.88		22.16	14.92	7.24	0.4854	
495.5	34.47		22.75	15.32	7.43	0.4852	
498.5	28.22		16.50	11.11	5.39	0.4850	
501.5	32.74		21.02	14.16	6.86	0.4848	1.637
504.5	38.81		27.09	18.25	8.84	0.4846	
507.6	39.52		27.80	18.73	9.07	0.4844	
510.7	35.41	11.71	23.70	15.97	7.73	0.4841	
513.9	37.11		25.40	17.12	8.28	0.4838	1.638
517.0	53.34		41.63	28.06	13.57	0.4835	
520.2	40.91		29.20	19.69	9.51	0.4832	
523.5	26.42		14.71	9.92	4.79	0.4829	1.639
526.7	31.93		20.22	13.64	6.58	0.4827	
530.2	26.46		14.75	9.95	4.80	0.4825	
533.3	31.29		19.58	13.21	6.37	0.4823	
536.7	32.12		20.41	13.77	6.64	0.4821	1.640
540.1	28.04		16.33	11.02	5.31	0.4819	
543.5	31.34		19.63	13.25	6.38	0.4816	
546.9	32.67		20.96	14.15	6.81	0.4814	
550.4	37.09	11.70	25.39	17.14	8.25	0.4812	1.641
553.9	27.81		16.11	10.88	5.23	0.4810	
557.4	22.67		10.97	7.41	3.56	0.4808	
561.0	26.45		14.75	9.96	4.79	0.4806	
564.6	34.19		22.49	15.19	7.30	0.4804	
568.3	30.51		18.81	12.71	6.10	0.4802	1.642
572.0	29.15		17.45	11.79	5.66	0.4799	
575.7	34.40		22.70	15.34	7.36	0.4796	
579.4	44.76		33.06	22.35	10.71	0.4793	1.643
583.2	35.22		23.52	15.9	7.62	0.4790	
587.1	25.56		13.86	9.37	4.49	0.4787	
590.9	27.39		15.69	10.61	5.08	0.4784	1.644
594.8	36.77	11.69	25.08	16.97	8.11	0.4781	
598.8	40.37		28.68	19.41	9.27	0.4778	
602.8	31.37		19.68	13.32	6.36	0.4776	1.645

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
606.8	41.25	11.69	29.56	20.01	9.55	0.4774	1.645
610.9	34.28		22.59	15.29	7.30	0.4772	
615.0	30.09		18.40	12.46	5.94	0.4770	
619.1	33.65		21.96	14.87	7.09	0.4768	
623.3	29.08		17.39	11.78	5.61	0.4765	1.646
627.5	25.48		13.79	9.34	4.45	0.4763	
631.8	21.85		10.16	6.88	3.28	0.4761	
636.1	29.02		17.33	11.74	5.59	0.4759	
640.5	28.71	11.68	17.03	11.54	5.49	0.4757	1.647
644.9	24.63		12.95	8.78	4.17	0.4755	
649.4	25.34		13.66	9.26	4.40	0.4752	
653.9	25.53		13.85	9.39	4.46	0.4749	1.648
658.4	21.74		10.06	6.82	3.24	0.4746	
663.0	22.74		11.06	7.50	3.56	0.4744	
667.7	25.95		14.27	9.68	4.59	0.4741	
672.4	27.94		16.26	11.03	5.23	0.4739	1.649
677.1	26.64		14.96	10.15	4.81	0.4737	
681.9	32.78		21.10	14.32	6.78	0.4735	
686.7	37.37	11.67	25.70	17.44	8.26	0.4734	1.649
691.6	31.22		19.55	13.27	6.28	0.4732	
696.6	29.25		17.59	11.94	5.65	0.4730	1.650
701.6	32.25		20.58	13.97	6.61	0.4728	
706.6	27.40		15.73	10.68	5.05	0.4726	
711.8	27.35		15.68	10.65	5.03	0.4723	
716.9	26.08		14.41	9.79	4.62	0.4721	1.651
722.1	25.80		14.13	9.6	4.53	0.4718	
727.4	27.71		16.04	10.9	5.14	0.4714	
732.8	29.12		17.45	11.86	5.59	0.4710	1.652
738.2	28.60	11.66	16.94	11.52	5.42	0.4707	
743.6	31.61		19.95	13.57	6.38	0.4704	1.653
749.1	23.74		12.08	8.22	3.86	0.4701	
754.7	24.18		12.52	8.52	4.0	0.4698	
760.6	23.75		12.09	8.23	3.86	0.4695	1.654
766.1	27.85		16.19	11.02	5.17	0.4692	
771.8	30.90		19.24	13.10	6.14	0.4688	
777.7	26.93		15.27	10.40	4.87	0.4685	1.655
783.6	25.83		14.17	9.65	4.52	0.4683	
789.5	33.08		21.42	14.59	6.83	0.4680	
795.6	27.27	11.65	15.62	10.64	4.98	0.4678	1.656
801.7	25.12		13.47	9.18	4.29	0.4675	
807.9	25.90		14.25	9.71	4.54	0.4672	

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(eV)	Total	Scattering	Absorption	Fission	Capture	α	η
814.1	27.74	11.65	16.09	10.97	5.12	0.4669	1.657
820.4	26.39		14.74	10.05	4.69	0.4666	
826.8	25.93		14.28	9.74	4.54	0.4663	
833.3	21.75		10.10	6.89	3.21	0.4660	1.658
839.9	18.83		7.18	4.9	2.28	0.4657	
846.5	20.77		9.12	6.22	2.90	0.4655	
853.2	24.78	11.64	13.14	8.97	4.17	0.4652	
860.0	25.82		14.18	9.68	4.50	0.4650	1.659
866.8	22.04		10.40	7.1	3.3	0.4647	
873.8	28.19		16.55	11.3	5.25	0.4644	
880.8	24.47		12.83	8.76	4.07	0.4641	1.660
887.9	22.57		10.93	7.47	3.46	0.4638	
895.1	24.27		12.63	8.63	4.0	0.4635	
902.4	20.76		9.12	6.23	2.89	0.4632	1.661
909.8	27.22		15.58	10.65	4.93	0.4630	
917.3	22.48	11.63	10.85	7.42	3.43	0.4628	
924.9	23.94		12.31	8.42	3.89	0.4625	1.662
932.5	25.68		14.05	9.61	4.44	0.4622	
940.3	24.87		13.24	9.06	4.18	0.4619	
948.1	22.20		10.57	7.23	3.34	0.4616	1.663
956.1	23.17		11.54	7.9	3.64	0.4613	
964.1	24.88		13.25	9.07	4.18	0.4610	
972.3	21.23		9.60	6.57	3.03	0.4607	1.664
980.5	20.44	11.62	8.82	6.04	2.78	0.4603	
988.9	21.59		9.97	6.83	3.14	0.4600	
997.4	22.28		10.66	7.3	3.36	0.4597	1.665
1.0 kev	22.04		10.42	7.14	3.28	0.4593	
1.006	21.58		9.96	6.83	3.13	0.4590	1.666
1.015	22.36		10.74	7.36	3.38	0.4587	
1.023	23.20		11.58	7.94	3.64	0.4584	
1.032	21.55		9.93	6.81	3.12	0.4581	1.667
1.041	21.13	11.61	9.52	6.53	2.99	0.4578	
1.051	20.47		8.86	6.08	2.78	0.4575	
1.060	21.75		10.14	6.96	3.18	0.4572	1.668
1.069	23.89		12.28	8.43	3.85	0.4569	
1.079	22.62		11.01	7.56	3.45	0.4566	
1.088	25.87		14.26	9.79	4.47	0.4563	1.669
1.098	28.40		16.79	11.53	5.26	0.4560	
1.108	26.33	11.60	14.73	10.12	4.61	0.4557	
1.118	24.12		12.52	8.6	3.92	0.4553	1.670
1.128	24.83		13.23	9.09	4.14	0.4549	

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(keV)	Total	Scattering	Absorption	Fission	Capture	α	η
1.139	20.78	11.60	9.18	6.31	2.87	0.4545	1.671
1.149	24.61		13.01	8.95	4.06	0.4541	
1.160	25.82		14.22	9.78	4.44	0.4538	1.672
1.171	24.83		13.23	9.1	4.13	0.4534	
1.181	32.25	11.59	20.66	14.22	6.44	0.4531	
1.193	27.76		16.17	11.13	5.04	0.4527	1.673
1.204	23.72		12.13	8.35	3.78	0.4524	
1.215	22.58		10.99	7.57	3.42	0.4521	
1.227	22.86		11.27	7.76	3.51	0.4518	1.674
1.238	35.13		23.54	8.45	3.82	0.4515	
1.25	23.06	11.58	11.48	7.91	3.57	0.4509	1.675
1.262	23.49		11.91	8.21	3.70	0.4505	
1.275	22.14		10.56	7.28	3.28	0.4501	1.676
1.287	22.41		10.83	7.47	3.36	0.4497	
1.30	23.86		12.28	8.47	3.81	0.4494	1.677
1.312	22.14		10.56	7.29	3.27	0.4490	
1.325	24.03	11.57	12.46	8.60	3.86	0.4486	
1.338	21.16		9.59	6.62	2.97	0.4482	1.678
1.352	24.92		13.35	9.22	4.13	0.4478	
1.365	24.00		12.43	8.59	3.84	0.4474	1.679
1.379	23.86		12.29	8.49	3.80	0.4470	
1.393	23.71		12.14	8.39	3.75	0.4466	1.680
1.407	24.56		12.99	8.98	4.01	0.4462	
1.422	22.36	11.56	10.80	7.47	3.33	0.4459	1.681
1.436	22.30		10.74	7.43	3.31	0.4455	
1.451	23.67		12.11	8.38	3.73	0.4451	1.682
1.466	25.01		13.45	9.31	4.14	0.4447	
1.481	23.76		12.20	8.45	3.75	0.4443	
1.497	20.45	11.55	8.90	6.16	2.74	0.4440	1.683
1.513	18.49		6.94	4.81	2.13	0.4436	
1.529	20.14		8.59	5.95	2.64	0.4432	1.684
1.545	18.63		7.08	4.91	2.17	0.4428	
1.562	20.97		9.42	6.53	2.89	0.4424	1.685
1.579	21.55	11.54	10.01	6.94	3.07	0.4420	
1.596	23.49		11.95	8.29	3.66	0.4416	1.686
1.613	21.64		10.10	7.01	3.09	0.4412	
1.631	22.29		10.75	7.46	3.29	0.4409	
1.649	19.79		8.25	5.73	2.52	0.4405	1.687
1.667	21.97	11.53	10.44	7.25	3.19	0.4401	
1.686	21.67		10.14	7.04	3.10	0.4397	1.688
1.704	22.51		10.98	7.63	3.35	0.4394	

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(keV)	Total	Scattering	Absorption	Fission	Capture	α	η
1.724	23.14	11.53	11.61	8.07	3.54	0.4390	1.689
1.743	21.24		9.71	6.75	2.96	0.4385	
1.763	21.73	11.52	10.21	7.10	3.11	0.4381	1.690
1.783	21.05		9.53	6.63	2.90	0.4377	
1.804	22.08		10.56	7.35	3.21	0.4372	1.691
1.825	20.87		9.35	6.51	2.84	0.4366	
1.846	19.44	11.51	7.93	5.52	2.41	0.4361	1.692
1.868	22.15		10.64	7.41	3.23	0.4356	1.693
1.890	21.11		9.60	6.69	2.91	0.4350	
1.912	19.06		7.55	5.26	2.29	0.4347	1.694
1.935	20.70		9.19	6.41	2.78	0.4343	
1.958	22.02	11.50	10.52	7.34	3.18	0.4339	1.695
1.982	22.45		10.95	7.64	3.31	0.4335	
2.006	22.06		10.56	7.37	3.19	0.4332	1.696
2.030	21.01		9.51	6.64	2.87	0.4328	
2.055	18.99		7.49	5.23	2.26	0.4324	
2.081	19.09	11.49	7.60	5.31	2.29	0.4319	1.697
2.107	19.51		8.02	5.6	2.42	0.4314	1.698
2.133	20.29		8.80	6.15	2.65	0.4308	
2.160	18.60		7.11	4.97	2.14	0.4302	1.699
2.188	20.10	11.48	8.62	6.03	2.59	0.4296	1.700
2.216	19.61		8.13	5.69	2.44	0.4291	
2.244	20.95		9.47	6.63	2.84	0.4286	1.701
2.273	21.39		9.91	6.94	2.97	0.4282	
2.303	20.12	11.47	8.65	6.06	2.59	0.4278	1.702
2.333	20.36		8.89	6.23	2.66	0.4273	1.703
2.364	19.95		8.48	5.94	2.54	0.4268	
2.395	20.01		8.54	5.99	2.55	0.4263	1.704
2.427	18.90	11.46	7.44	5.22	2.22	0.4257	
2.460	18.39		6.93	4.86	2.07	0.4251	1.705
2.493	21.22		9.76	6.85	2.91	0.4247	1.706
2.527	19.71		8.25	5.79	2.46	0.4242	
2.562	19.27	11.45	7.82	5.49	2.33	0.4238	1.707
2.597	20.45		9.00	6.32	2.68	0.4233	
2.634	21.35		9.90	6.96	2.94	0.4229	1.708
2.671	19.80	11.44	8.36	5.88	2.48	0.4224	
2.708	18.88		7.44	5.23	2.21	0.4220	1.709
2.747	18.40		6.96	4.90	2.06	0.4214	1.710
2.786	17.92	11.43	6.49	4.57	1.92	0.4208	
2.827	19.74		8.31	5.85	2.46	0.4203	1.711

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(keV)	Total	Scattering	Absorption	Fission	Capture	α	η
2.868	18.46	11.43	7.03	4.95	2.08	0.4198	1.712
2.910	18.97	11.42	7.55	5.32	2.23	0.4193	.
2.953	19.75		8.33	5.87	2.46	0.4188	1.713
2.997	18.75		7.33	5.17	2.16	0.4183	
3.041	17.54		6.12	4.32	1.80	0.4177	1.714
3.087	19.29	11.41	7.88	5.56	2.32	0.4171	1.715
3.134	19.29		7.88	5.56	2.32	0.4165	1.715
3.182	19.08		7.67	5.42	2.25	0.4160	1.716
3.231	18.49	11.40	7.09	5.01	2.08	0.4155	1.717
3.282	18.22		6.82	4.82	2.00	0.4149	
3.333	18.39		6.99	4.94	2.05	0.4144	1.718
3.386	19.31	11.39	7.92	5.60	2.32	0.4138	1.719
3.440	18.19		6.80	4.81	1.99	0.4133	
3.495	18.03		6.64	4.70	1.94	0.4127	1.720
3.552	17.00	11.38	5.62	3.98	1.64	0.4122	1.721
3.610	17.78		6.40	4.53	1.87	0.4117	
3.669	18.97		7.59	5.38	2.21	0.4112	1.722
3.730	17.85	11.37	6.48	4.59	1.89	0.4107	1.723
3.793	17.67		6.30	4.47	1.83	0.4102	
3.857	17.67	11.36	6.31	4.48	1.83	0.4096	1.724
3.922	18.59		7.23	5.13	2.10	0.4091	1.725
3.989	18.32		6.96	4.94	2.02	0.4086	
4.059	17.49	11.35	6.14	4.36	1.78	0.4080	1.726
4.129	18.16		6.81	4.84	1.97	0.407	1.727
4.202	17.57	11.34	6.23	4.43	1.80	0.406	1.728
4.277	17.48		6.14	4.37	1.77	0.406	
4.354	18.34		7.00	4.98	2.02	0.405	1.730
4.432	17.96	11.33	6.63	4.72	1.91	0.404	1.731
4.513	17.69		6.36	4.53	1.83	0.404	
4.597	18.69	11.32	7.37	5.25	2.12	0.403	1.732
4.682	17.88		6.56	4.68	1.88	0.402	1.733
4.770	17.16	11.31	5.85	4.17	1.68	0.402	.
4.860	17.08		5.77	4.12	1.65	0.401	1.734
4.953	16.42		5.11	3.65	1.46	0.401	
5.049	17.15	11.30	5.85	4.18	1.67	0.400	1.736
5.148	16.81		5.51	3.94	1.57	0.399	1.737
5.249	17.57	11.29	6.28	4.49	1.79	0.398	1.738
5.354	16.28		4.99	3.57	1.42	0.397	1.739
5.461	16.96	11.28	5.68	4.07	1.61	0.396	1.741

Table 6 (Cont.)
 ^{235}U CROSS SECTIONS

E(keV)	Total	Scattering	Absorption	Fission	Capture	α	η	σ_{non}	σ_{in}	$\bar{\sigma}$
5.572	16.82	11.28	5.54	3.97	1.57	0.396	1.741	σ_{abs}	0.000	2.43
5.686	16.99	11.27	5.72	4.10	1.62	0.395	1.742			
5.804	19.51		8.24	5.91	2.33	0.394	1.743			
5.926	17.03	11.26	5.77	4.14	1.63	0.393	1.744			
6.051	16.53		5.27	3.78	1.49	0.393	1.745			
6.181	16.00	11.25	4.75	3.41	1.34	0.392	1.746			
6.314	16.54	11.24	5.30	3.81	1.49	0.392	1.746			
6.452	16.02	11.23	4.79	3.44	1.35	0.391	1.747			
6.595	16.12		4.89	3.52	1.37	0.390	1.748			
6.742	18.01		6.78	4.88	1.90	0.389	1.749			
6.895	16.31	11.22	5.09	3.67	1.42	0.388	1.751			
7.052	16.06		4.84	3.49	1.35	0.388	1.751			
7.215	16.30	11.21	5.09	3.67	1.42	0.387	1.752			
7.384	16.55		5.34	3.85	1.49	0.386	1.753			
7.559	15.92	11.20	4.72	3.41	1.31	0.385	1.755			
7.740	16.15		4.95	3.58	1.37	0.384	1.756			
7.927	15.74	11.19	4.55	3.29	1.26	0.383	1.757			
8.122	16.72	11.18	5.54	4.01	1.53	0.382	1.758			
8.324	15.85	11.17	4.68	3.39	1.29	0.381	1.760			
8.533	15.88	11.17	4.71	3.41	1.30	0.380	1.761			
8.751	15.64	11.16	4.48	3.25	1.23	0.379	1.762			
8.976	16.06	11.15	4.91	3.56	1.35	0.379	1.762			
9.211	16.06	11.15	4.91	3.56	1.35	0.378	1.763			
9.455	15.57	11.14	4.43	3.22	1.21	0.377	1.765			
9.709	15.77	11.13	4.64	3.37	1.27	0.376	1.766			
9.973	15.97	11.14	4.83	3.51	1.32	0.375	1.767			
0.01 MeV	15.1	10.70	4.40	3.20	1.20	0.375	1.767	4.40		
0.015	14.75	10.94	3.81	2.80	1.01	0.359	1.788	3.81		
0.02	14.42	10.93	3.461	2.56	0.901	0.352	1.797	3.486	0.025	
0.025	14.22	10.88	3.305	2.45	0.855	0.349	1.801	3.34	0.035	
0.03	13.91	10.58	3.192	2.37	0.822	0.347	1.804	3.33	0.050	
0.04	13.51	10.44	2.981	2.23	0.751	0.337	1.818	3.071	0.090	
0.05	13.21	10.27	2.815	2.12	0.695	0.328	1.830	2.94	0.125	
0.06	12.98	10.13	2.681	2.03	0.651	0.321	1.840	2.85	0.169	
0.07	12.70	9.95	2.545	1.94	0.605	0.312	1.852	2.75	0.205	
0.08	12.36	9.67	2.432	1.87	0.562	0.301	1.868	2.69	0.258	
0.09	12.13	9.50	2.335	1.80	0.535	0.297	1.874	2.63	0.295	
0.10	11.88	9.26	2.247	1.75	0.497	0.284	1.900	2.62	0.373	2.44
0.15	11.14	8.66	1.936	1.55	0.386	0.249	1.962	2.48	0.544	2.45
0.20	10.43	8.00	1.749	1.43	0.319	0.223	2.003	2.43	0.681	2.45
0.25	9.65	7.24	1.632	1.36	0.272	0.200	2.050	2.41	0.778	2.46
0.3	9.15	6.73	1.583	1.340	0.243	0.181	2.093	2.42	0.837	2.46
0.4	8.26	5.76	1.495	1.29	0.205	0.159	2.131	2.50	1.005	2.47
0.5	7.6	5.06	1.415	1.23	0.185	0.150	2.157	2.54	1.125	2.48

Table 6 (Cont.)
 U^{235} CROSS SECTIONS

E(MeV)	Total	Scattering	Absorption	Fission	Capture	α	η	σ_{non}	σ_{in}	$\bar{\sigma}$	$c_{n, Zn}$	$c_{n, 3n}$
0.6	7.22	4.67	1.342	1.17	0.178	0.152	2.161	2.55	1.208	2.49		
0.7	6.94	4.34	1.321	1.16	0.161	0.139	2.195	2.60	1.279	2.50		
0.8	6.78	4.13	1.301	1.17	0.131	0.112	2.257	2.65	1.349	2.51		
0.9	6.63	3.93	1.320	1.20	0.120	0.100	2.295	2.70	1.380	2.525		
1.0	6.55	3.81	1.325	1.22	0.105	0.086	2.330	2.74	1.415	2.53		
1.2	6.54	3.73	1.320	1.23	0.090	0.073	2.377	2.81	1.490	2.55		
1.4	6.59	3.67	1.316	1.24	0.076	0.061	2.422	2.92	1.604	2.57		
1.6	6.75	3.75	1.348	1.28	0.068	0.056	2.453	3.00	1.652	2.59		
1.8	6.89	3.88	1.369	1.31	0.059	0.045	2.497	3.01	1.651	2.61		
2.0	7.10	4.01	1.374	1.32	0.054	0.041	2.526	3.09	1.716	2.63		
2.2	7.35	4.25	1.370	1.32	0.050	0.038	2.563	3.10	1.730	2.66		
2.4	7.50	4.40	1.364	1.32	0.044	0.033	2.604	3.10	1.736	2.69		
2.6	7.60	4.50	1.351	1.31	0.041	0.031	2.638	3.10	1.749	2.72		
2.8	7.75	4.66	1.337	1.30	0.037	0.028	2.675	3.09	1.753	2.75		
3.0	7.80	4.73	1.305	1.27	0.035	0.0275	2.706	3.07	1.765	2.78		
3.5	7.80	4.75	1.260	1.23	0.030	0.024	2.783	3.05	1.790	2.85		
4.0	7.80	4.76	1.206	1.18	0.026	0.022	2.867	3.04	1.834	2.93		
4.5	7.60	4.57	1.174	1.15	0.024	0.021	2.948	3.03	1.856	3.01		
5.0	7.35	4.33	1.160	1.14	0.020	0.0175	3.027	3.02	1.860	3.08	0.00	
5.5	7.15	4.14	1.158	1.14	0.018	0.0158	3.111	3.01	1.802	3.16	0.05	
6.0	6.90	3.91	1.186	1.17	0.016	0.0136	3.188	2.99	1.684	3.23	0.12	
6.5	6.90	3.92	1.375	1.36	0.015	0.0110	3.269	2.98	1.405	3.305	0.20	
7.0	7.00	4.03	1.534	1.52	0.014	0.009	3.350	2.97	1.156	3.38	0.28	
7.5	6.90	3.94	1.683	1.67	0.013	0.007	3.421	2.96	0.867	3.455	0.41	
8.0	6.90	3.96	1.742	1.73	0.012	0.007	3.505	2.94	0.678	3.53	0.52	
8.5	6.85	3.92	1.811	1.80	0.011	0.006	3.583	2.93	0.539	3.605	0.58	
9.0	6.83	3.91	1.810	1.80	0.010	0.006	3.658	2.92	0.510	3.68	0.60	
9.5	6.83	3.92	1.809	1.80	0.009	0.005	3.736	2.91	0.491	3.755	0.61	
10.0	6.80	3.92	1.799	1.79	0.009	0.005	3.811	2.88	0.421	3.83	0.66	
10.5	6.79	3.94	1.749	1.74	0.009	0.005	3.886	2.85	0.411	3.905	0.69	
11.0	6.68	3.85	1.728	1.72	0.008	0.005	3.960	2.83	0.402	3.98	0.70	
11.5	6.62	3.81	1.768	1.76	0.008	0.004	4.039	2.81	0.392	4.055	0.65	
12.0	6.47	3.68	1.818	1.81	0.008	0.004	4.114	2.79	0.372	4.13	0.60	0.00
12.5	6.24	3.47	1.877	1.87	0.007	0.003	4.192	2.77	0.353	4.205	0.53	0.01
13.0	6.17	3.43	1.967	1.96	0.007	0.003	4.267	2.74	0.343	4.280	0.41	0.02
13.5	6.21	3.49	2.077	2.07	0.007	0.003	4.342	2.72	0.333	4.355	0.27	0.04
14.0	6.24	3.54	2.186	2.18	0.006	0.003	4.416	2.70	0.324	4.43	0.13	0.06
14.5	6.26	3.57	2.216	2.21	0.006	0.003	4.492	2.69	0.314	4.505	0.09	0.07
15.0	6.29	3.61	2.246	2.24	0.006	0.003	4.513	2.68	0.304	4.565	0.05	0.08

2.6 NONELASTIC CROSS SECTION

The nonelastic cross section recommended in this report is essentially identical with the nonelastic cross sections recommended by K. Parker⁽⁸⁴⁾ above 0.02 MeV. Below 0.02 MeV the nonelastic cross section is identical to the absorption cross section of U²³⁵. Table 7 which has been reproduced from Parker's report⁽⁸⁴⁾ shows the available direct measurements of the nonelastic cross section.

These data are shown in Table 7.

2.7 ELASTIC CROSS SECTION

Above 0.01 MeV the elastic scattering cross section of U²³⁵ was obtained by subtracting the nonelastic cross section from the total cross section. Smith⁽⁸⁵⁾ has measured the elastic scattering cross section between 300 keV and 1495 keV. Figure 39 shows a comparison between the calculated elastic scattering cross section and Smith's measurements.

Table 7

DIRECT MEASUREMENTS OF THE NONELASTIC CROSS SECTION OF U²³⁵

E(MeV)	σ_{non} (barns)	Reference
0.25	2.86	Allen
0.5	2.68	Allen
1.0	2.35 ± 0.35	Allen
1.0	2.70 ± 0.30	Beyster
2.5	3.25 ± 0.3	Beyster
3.0	2.5 ± 0.5	Walt
4.0	3.34 ± 0.35	Bethe
4.5	3.34 ± 0.35	Bethe
13.4	2.64 ± 0.06	Degtyarev and Nadtochii
15.4	2.58 ± 0.04	Degtyarev and Nadtochii
16.8	2.71 ± 0.04	Degtyarev and Nadtochii
18.7	2.74 ± 0.07	Degtyarev and Nadtochii

Below 0.1 MeV the elastic scattering cross section was obtained by the method discussed in Section 2.6.

The resulting evaluated data are shown in Table 6.

2.8 n, 2n CROSS SECTION

Since no direct measurements are available of the n, 2n cross section of U²³⁵, the data shown in Table 7 is strictly an estimated cross section and has been obtained from Reference 84.

2.9 (n, 3n) CROSS SECTION

The n, 3n cross section shown in Table 6 has been taken directly from Reference 84.

2.10 ANGULAR DISTRIBUTION OF ELASTICALLY SCATTERED NEUTRONS

Smith⁽⁸⁵⁾ has measured the angular distribution of neutrons elastically scattered from U²³⁵ between 300 keV and 1495 keV. In addition, several other measurements exist at 0.5, 0.55, 1.0 and 2.0 MeV.^(86,87) Also several measurements are available for 92-U.⁽⁸⁸⁻⁹¹⁾ These data old and new were analyzed in the following manner:

$$\sigma_s(E, \mu) = \frac{\sigma_s(E)}{4\pi} \sum_{\ell} (2\ell+1) f_{\ell} P_{\ell}(\mu) \quad (1)$$

where $\sigma_s(E, \mu)$ is the scattering cross section per unit solid angle in the center of mass system for a neutron at energy E scattered through an angular deflection given by $\cos^{-1} \mu$.

The Legendre expansion coefficients, calculated by a least squares fit to the data, were then plotted versus energy and smooth curves were then drawn through the data. The Legendre expansion coefficients obtained by this procedure are tabulated in Table 8.

2.11 INELASTIC SCATTERING CROSS SECTIONS

The inelastic scattering cross sections were obtained by subtracting the absorption, n, 2n and n, 3n cross sections from the total nonelastic cross section. The resulting data are shown in Tables 6 and 9. These data are close in numerical value to those shown in Reference 85.

The partial inelastic scattering cross sections shown in Table 9 were obtained by attempting to combine the data given in Reference 85 with the data outlined by Yiftah et.al. (92) It is clear that this data is somewhat artificial since there is considerable question about the level structure of U²³⁵ and since the available experimental data is quite sparse. Table 10 shows a comparison of the data of Cranberg et al., (93) with the recommended set of data.

2.12 COMPARISON WITH RESONANCE INTEGRAL MEASUREMENTS

A survey has been made of resonance integral measurements. The results of these measurements along with the resonance integrals that have been calculated from the data given in this report are summarized in Table 11.

Table 8

LEGENDRE EXPANSION COEFFICIENTS FOR U²³⁵

<u>E MeV</u>	<u>f₁</u>	<u>f₂</u>	<u>f₃</u>	<u>f₄</u>	<u>f₅</u>	<u>f₆</u>
15.0	0.825	0.647	0.501	0.396	0.348	0.328
14.5	0.821	0.642	0.498	0.395	0.343	0.318
14.0	0.815	0.638	0.495	0.393	0.336	0.305
13.5	0.809	0.633	0.492	0.392	0.328	0.292
13.0	0.805	0.630	0.492	0.392	0.322	0.280
12.5	0.801	0.627	0.492	0.393	0.317	0.267
12.0	0.797	0.627	0.493	0.394	0.312	0.257
11.5	0.794	0.628	0.497	0.397	0.308	0.243
11.0	0.795	0.631	0.503	0.402	0.306	0.232
10.5	0.795	0.637	0.512	0.408	0.303	0.222
10.0	0.797	0.646	0.523	0.414	0.302	0.211
9.5	0.799	0.657	0.536	0.421	0.301	0.202
9.0	0.804	0.668	0.544	0.425	0.299	0.193
8.5	0.808	0.679	0.552	0.428	0.296	0.187
8.0	0.814	0.687	0.556	0.427	0.292	0.182
7.5	0.817	0.692	0.557	0.425	0.286	0.174
7.0	0.818	0.692	0.552	0.418	0.277	0.167
6.5	0.815	0.688	0.539	0.406	0.267	0.159
6.0	0.807	0.678	0.523	0.389	0.257	0.152
5.5	0.789	0.662	0.504	0.371	0.247	0.143
5.0	0.764	0.642	0.482	0.352	0.233	0.133
4.5	0.736	0.616	0.459	0.336	0.222	0.122
4.0	0.706	0.581	0.435	0.318	0.207	0.109
3.5	0.673	0.541	0.408	0.301	0.186	0.094
3.0	0.635	0.493	0.378	0.278	0.157	0.078
2.8	0.618	0.472	0.366	0.267	0.143	0.071
2.6	0.602	0.449	0.353	0.256	0.131	0.062
2.4	0.583	0.424	0.338	0.242	0.116	0.052
2.2	0.562	0.398	0.322	0.227	0.102	0.044
2.0	0.544	0.369	0.304	0.207	0.087	0.036
1.8	0.518	0.342	0.284	0.185	0.072	0.028
1.6	0.496	0.309	0.262	0.157	0.056	0.002
1.4	0.472	0.278	0.234	0.126	0.041	0.016
1.2	0.448	0.246	0.204	0.092	0.027	0.011
1.0	0.422	0.212	0.167	0.057	0.017	0.007
0.9	0.408	0.197	0.146	0.043	0.014	0.006
0.8	0.393	0.182	0.118	0.032	0.012	0.004
0.7	0.380	0.166	0.090	0.024	0.009	0.003
0.6	0.363	0.152	0.062	0.018	0.007	0.002
0.5	0.347	0.134	0.041	0.014	0.006	0.001

Table 8 (Cont.)
 LEGENDRE EXPANSION COEFFICIENTS FOR U^{235}

E MeV	f ₁	f ₂	f ₃	f ₄	f ₅	f ₆
0.4	0.323	0.115	0.024	0.011	0.004	0.001
0.3	0.290	0.088	0.013	0.007	0.002	0.001
0.25	0.267	0.075	0.009	0.006	0.002	0.001
0.2	0.242	0.059	0.006	0.004	0.002	0.001
0.15	0.207	0.044	0.003	0.003	0.002	0.001
0.1	0.166	0.026	0.002	0.001	0.001	0.0
0.09	0.158	0.023	0.002	0.001	0.001	
0.08	0.150	0.020	0.002	0.001	0.001	
0.07	0.135	0.017	0.002	0.001	0.001	
0.06	0.120	0.014	0.002	0.001	0.001	
0.05	0.097	0.011	0.001	0.0	0.0	
0.04	0.080	0.009	0.001			
0.03	0.060	0.006	0.001			
0.025	0.045	0.003	0.001			
0.02	0.035	0.0	0.0			
0.015	0.015					
0.010	0.005					

Table 9
 PARTIAL INELASTIC SCATTERING CROSS SECTIONS OF U^{235}
 ENERGY IN MEV OF EXCITED STATES

E_n (MeV)	0.013	0.05	0.084	0.103	0.150	0.173	0.235	0.270	0.5	0.5-	1.0-	1.5-	1.75-	2.0-	2.3-	Total
0.01	0.00															0.00
0.015	0.00															0.00
0.02	0.025															0.025
0.025	0.035															0.035
0.03	0.050															0.050
0.04	0.090															0.090
0.05	0.125	0.000														0.125
0.06	0.150	0.019														0.169
0.07	0.740	0.065														0.205
0.08	0.130	0.128														0.258
0.09	0.120	0.172	0.003													0.295
0.1	0.105	0.200	0.068	0.000												0.373
0.15	0.071	0.320	0.123	0.030	0.000											0.544
0.2	0.050	0.340	0.189	0.050	0.050	0.002										0.681
0.25	0.042	0.352	0.192	0.056	0.056	0.050	0.030									0.778
0.3	0.034	0.358	0.185	0.059	0.059	0.072	0.050	0.020								0.837
0.4	0.024	0.360	0.170	0.062	0.062	0.172	0.080	0.065	0.101							1.005
0.5	0.029	0.358	0.155	0.061	0.061	0.200	0.100	0.100	0.061	0.000						1.125
0.6	0.015	0.350	0.140	0.059	0.059	0.203	0.100	0.100	0.100	0.100	0.100					1.208
0.7	0.013	0.310	0.120	0.055	0.055	0.180	0.090	0.100	0.180	0.176						1.279
0.8	0.011	0.268	0.100	0.049	0.049	0.140	0.080	0.080	0.200	0.372						1.349
0.9	0.009	0.208	0.080	0.045	0.045	0.080	0.050	0.050	0.200	0.632						1.380
1.0	0.008	0.150	0.040	0.040	0.040	0.040	0.040	0.040	0.200	0.817	0.000					1.415
1.2	0.007	0.090	0.020	0.020	0.020	0.020	0.020	0.020	0.100	0.905	0.300					1.490
1.4	0.005	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.050	0.739	0.780	0.000				1.604
1.6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.677	0.900	0.050	0.050			1.652
1.8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.451	0.810	0.225	0.155			1.651
2.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.270	0.670	0.420	0.356	0.000			1.716
2.2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.180	0.400	0.475	0.415	0.260			1.730
2.4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.086	0.285	0.540	0.540	0.300			1.736

Table 10
INELASTIC SCATTERING IN U^{235}

E_n 550 ± 10 keV

-Q	300-200	200-90
Measured(93)	0.20 ± 0.05	0.25 ± 0.05
This Report	0.20	0.32

E_n 980 ± 400 keV

-Q	750-500	500-150
Measured(93)	0.31 ± 0.06	0.35 ± 0.06
This Report	-	0.36

E_n 2000 ± 30 keV

-Q	1750-1500	1500-1000	1000-500
Measured(93)	0.42 ± 0.1	0.67 ± 0.15	0.27 ± 0.05
This Report	0.42	0.67	0.27

Table 11
COMPARISON OF RESONANCE INTEGRAL DATA FOR U²³⁵

<u>Measurement</u>	<u>Cutoff E</u> <u>(eV)</u>	<u>I_a</u>	<u>I_f</u>	<u>I_{n,γ}</u>	<u>η̄</u>	<u>ᾱ</u>
Hardy, et al ⁽⁹⁴⁾ (Bettis) TRX	.5		274±11			
Clayton ⁽⁹⁵⁾ (Hanford)	.49		271±25			
Feiner ⁽⁹⁶⁾ KAPL)	.5	432	292±18	140±10	1.64	.486±.025
Conway, et al ⁽⁹⁷⁾ (Bettis)	.5	446	288±18	158	1.57	.55±.04
Bigham ⁽⁹⁸⁾ (Chalk River)	.45		272±5			
Baumann ⁽⁹⁹⁾ (Savannah River)	.60		263±9			
Calculated, this report	.414	445.5	292.3	153.2	1.594	.524

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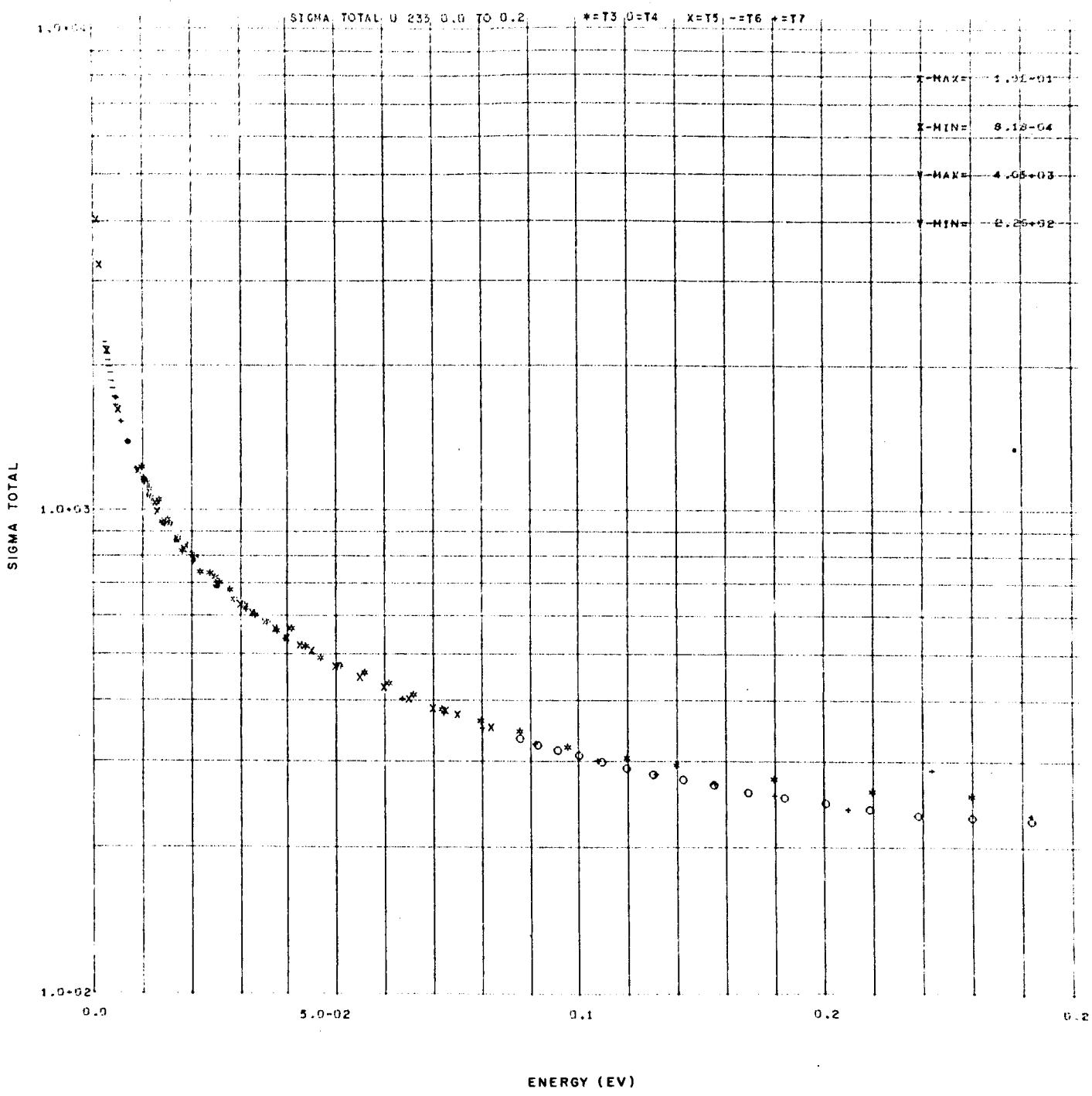


Figure 1

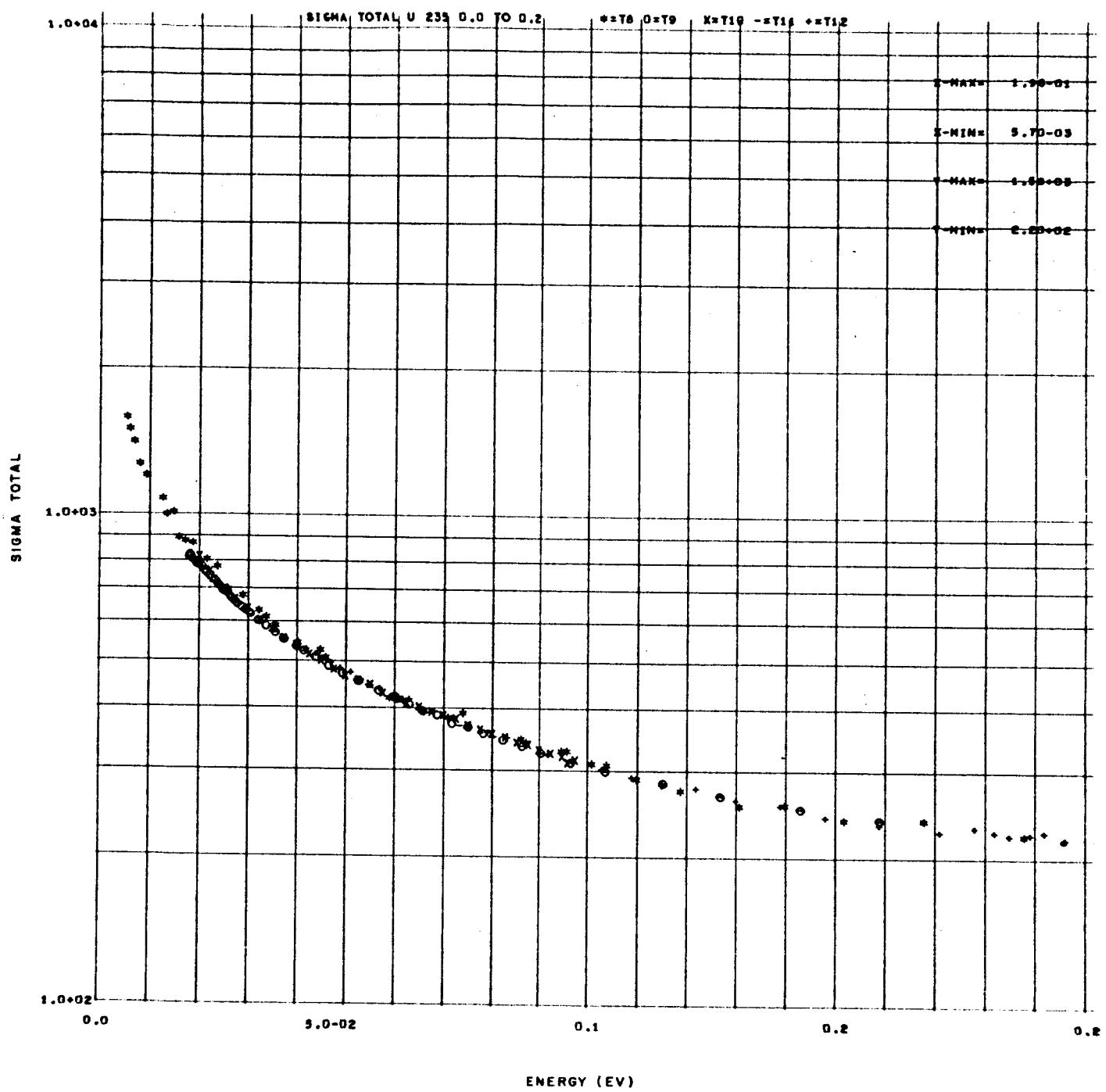


Figure 2

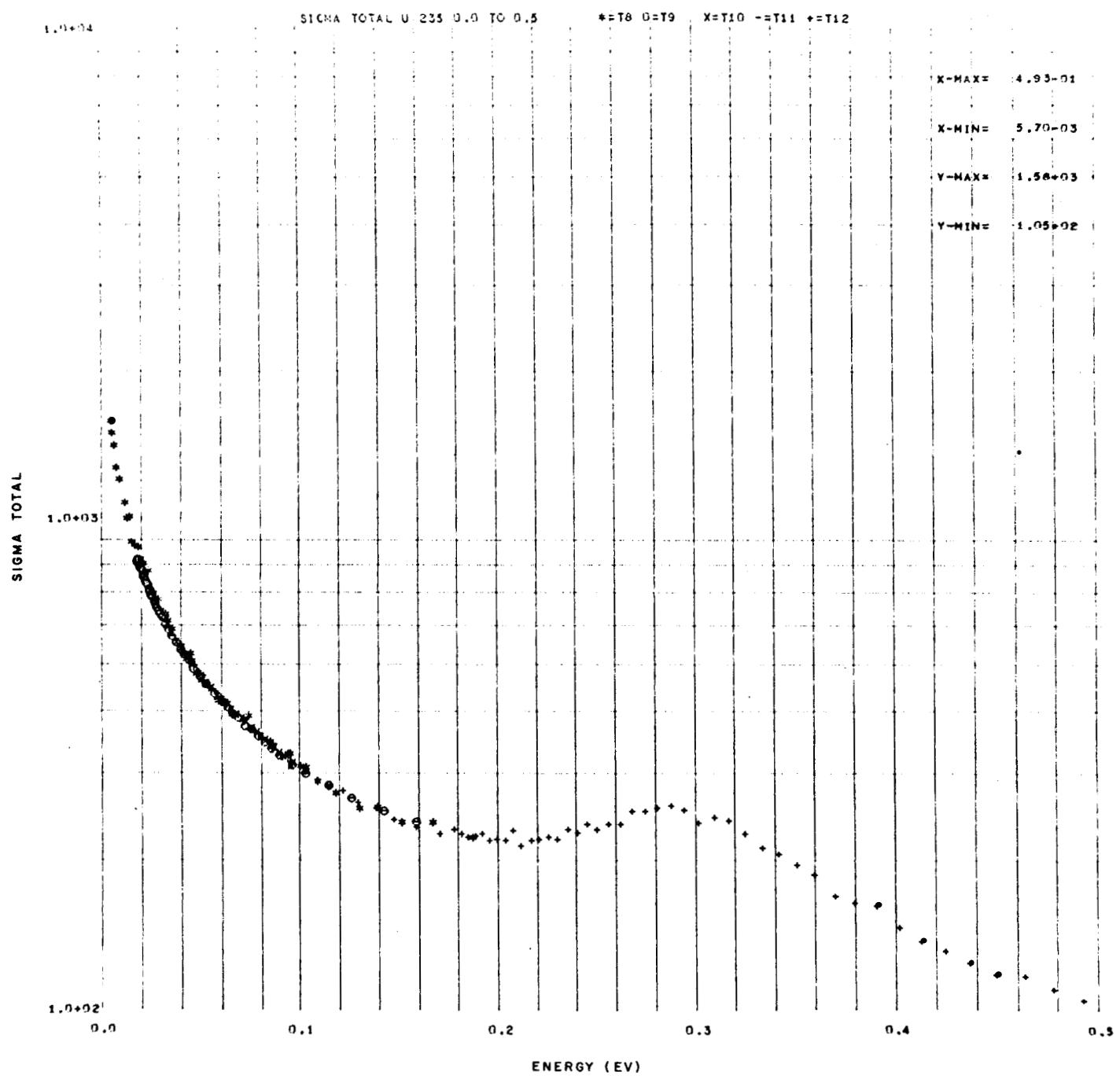


Figure 3

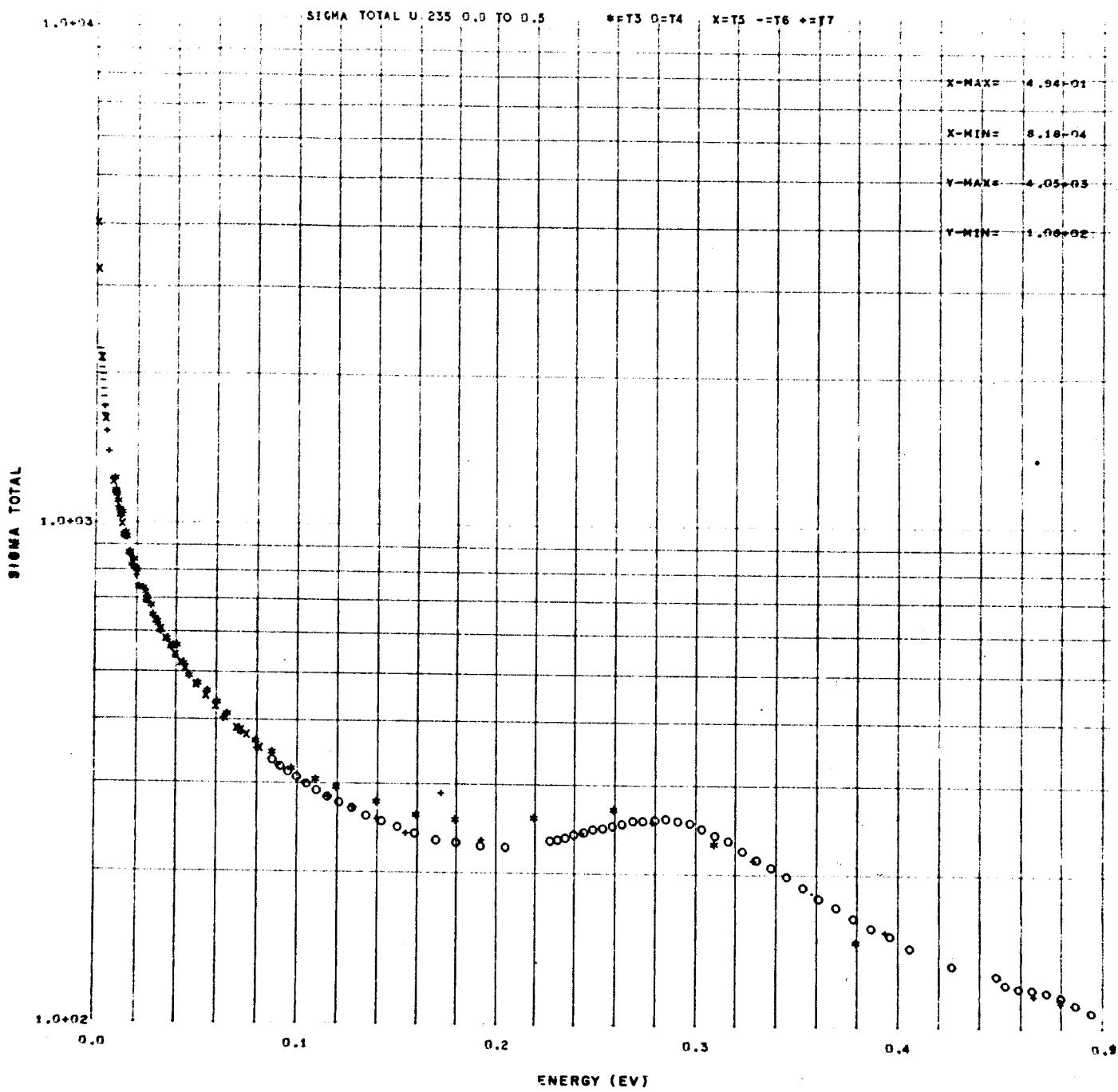


Figure 4

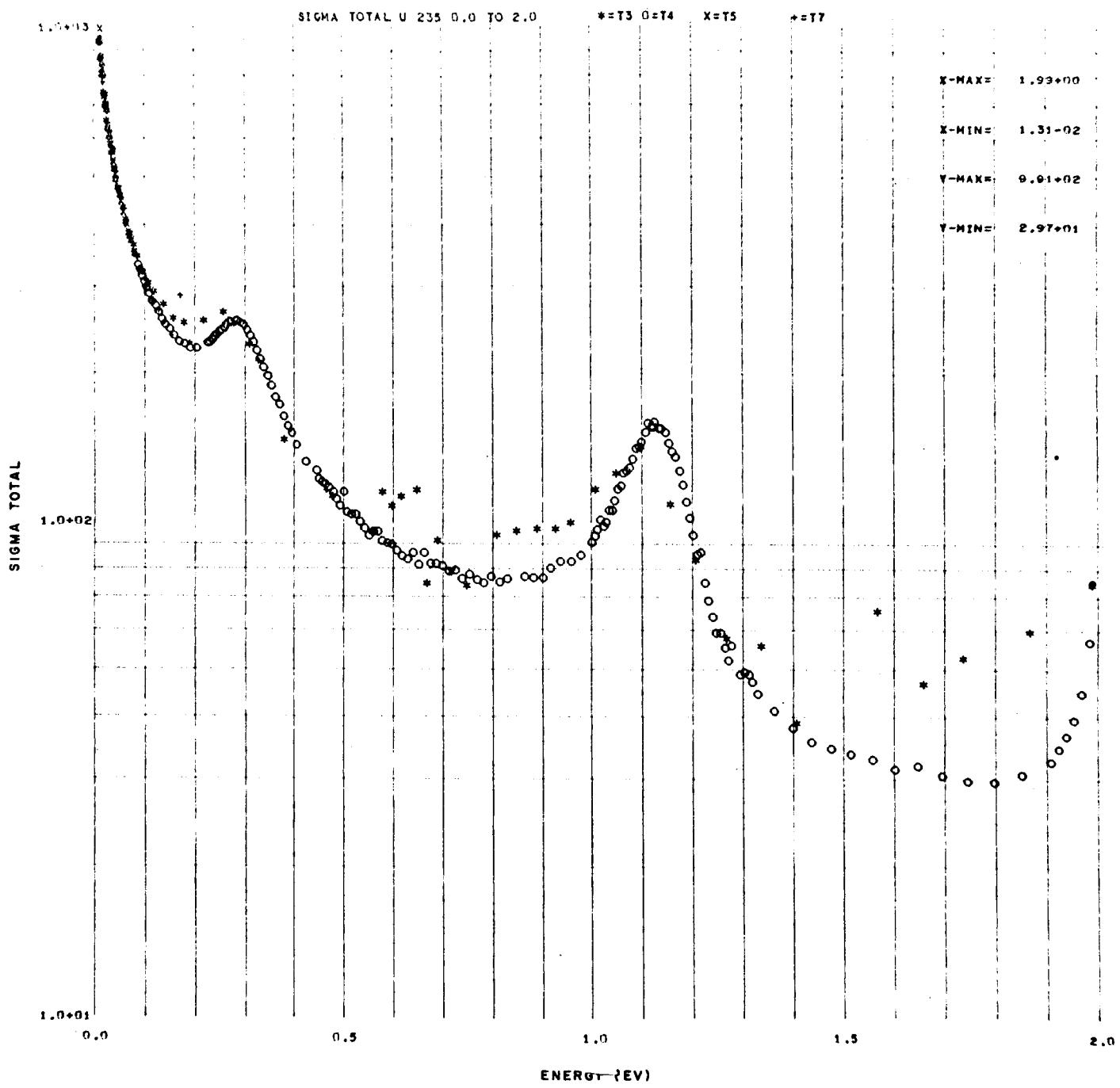


Figure 5

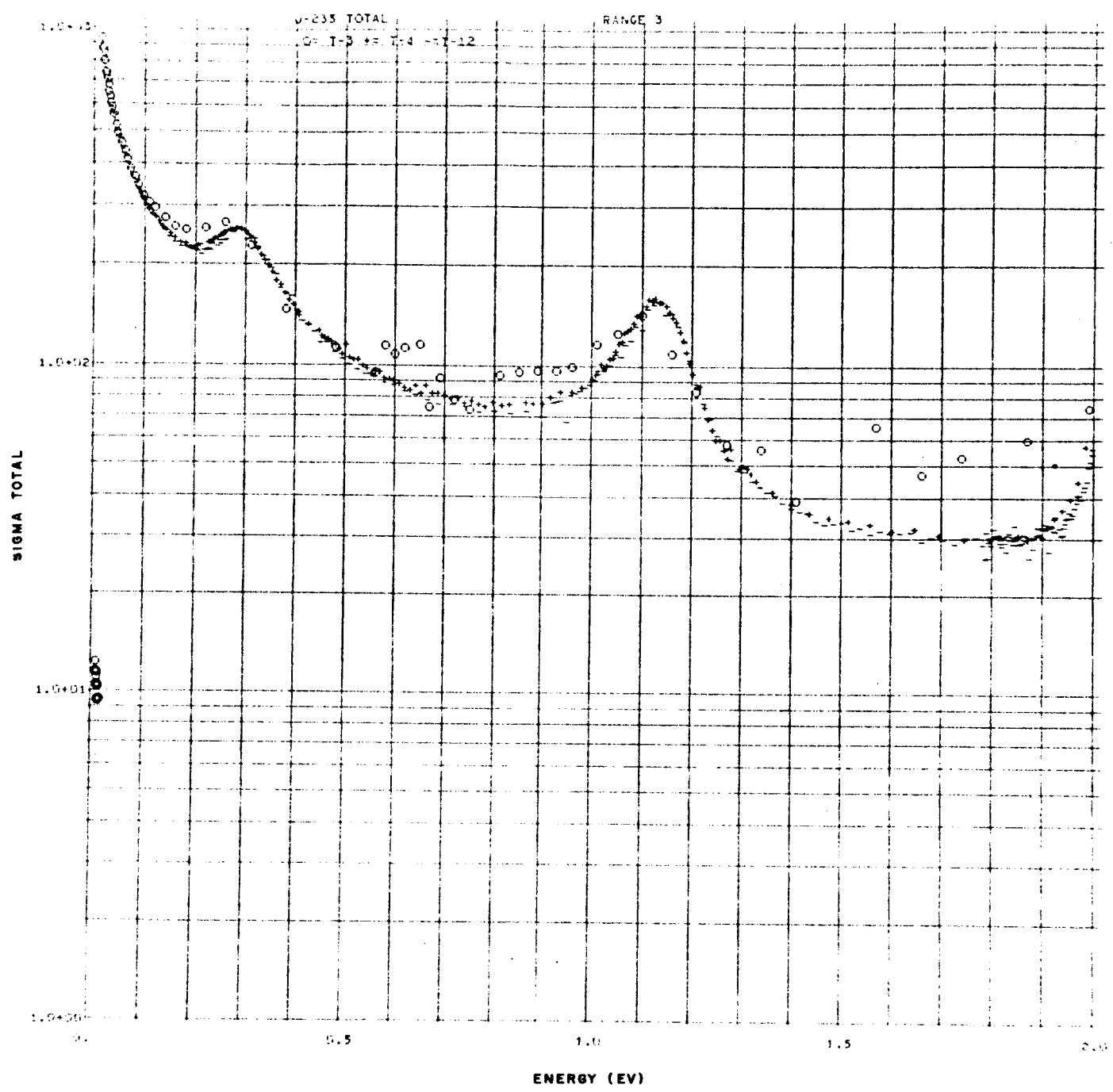


Figure 6

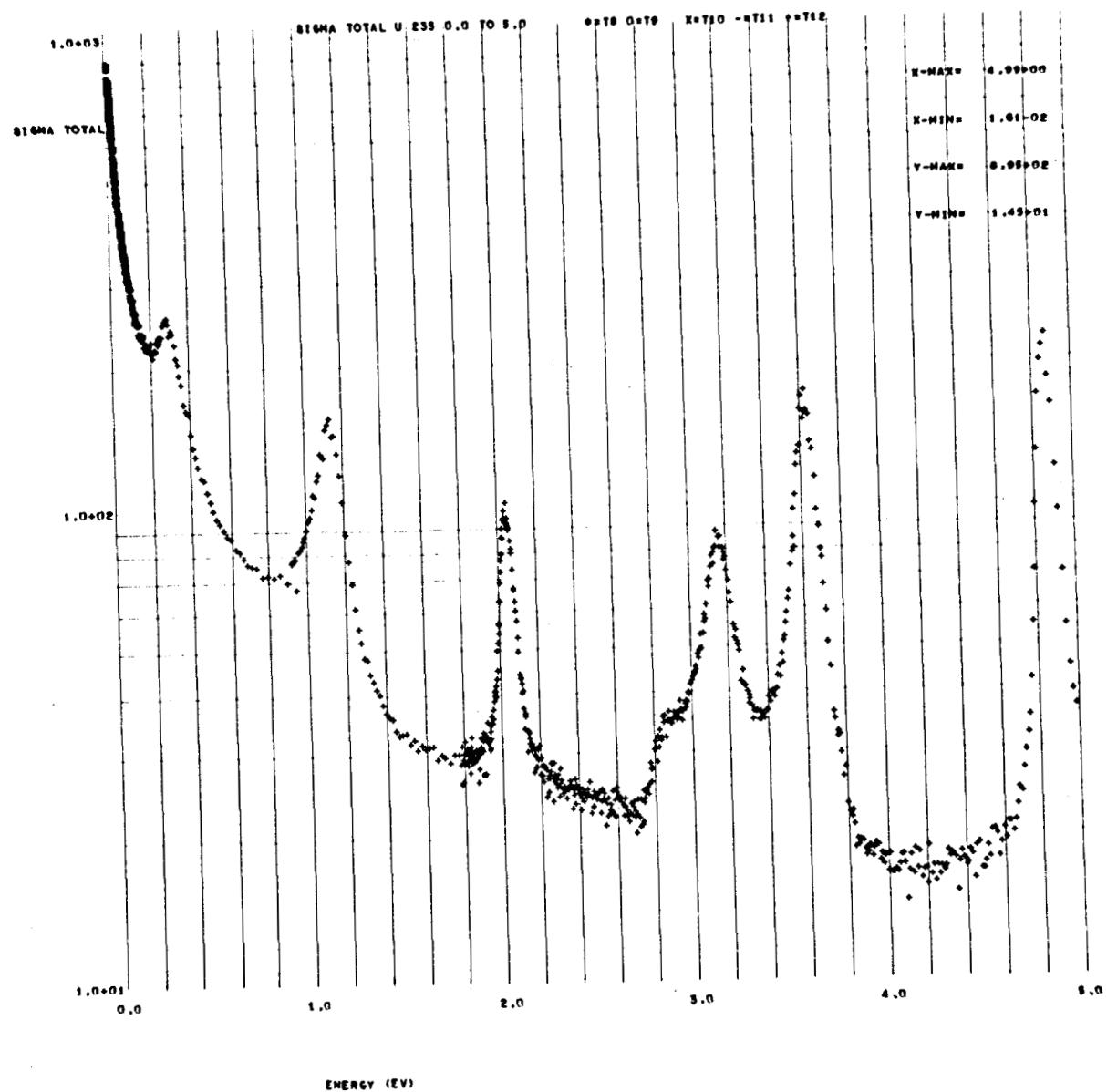


Figure 7

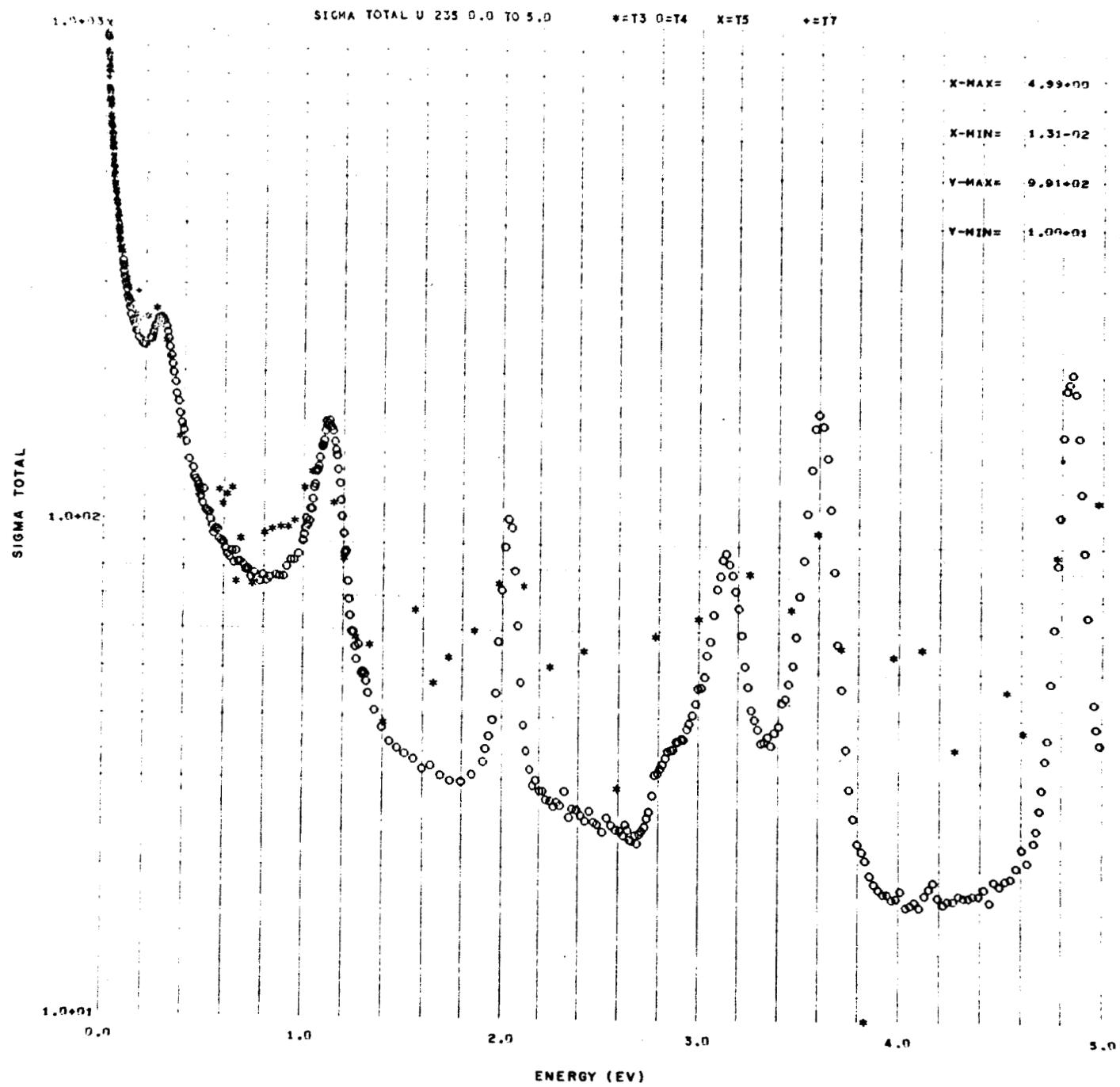


Figure 8

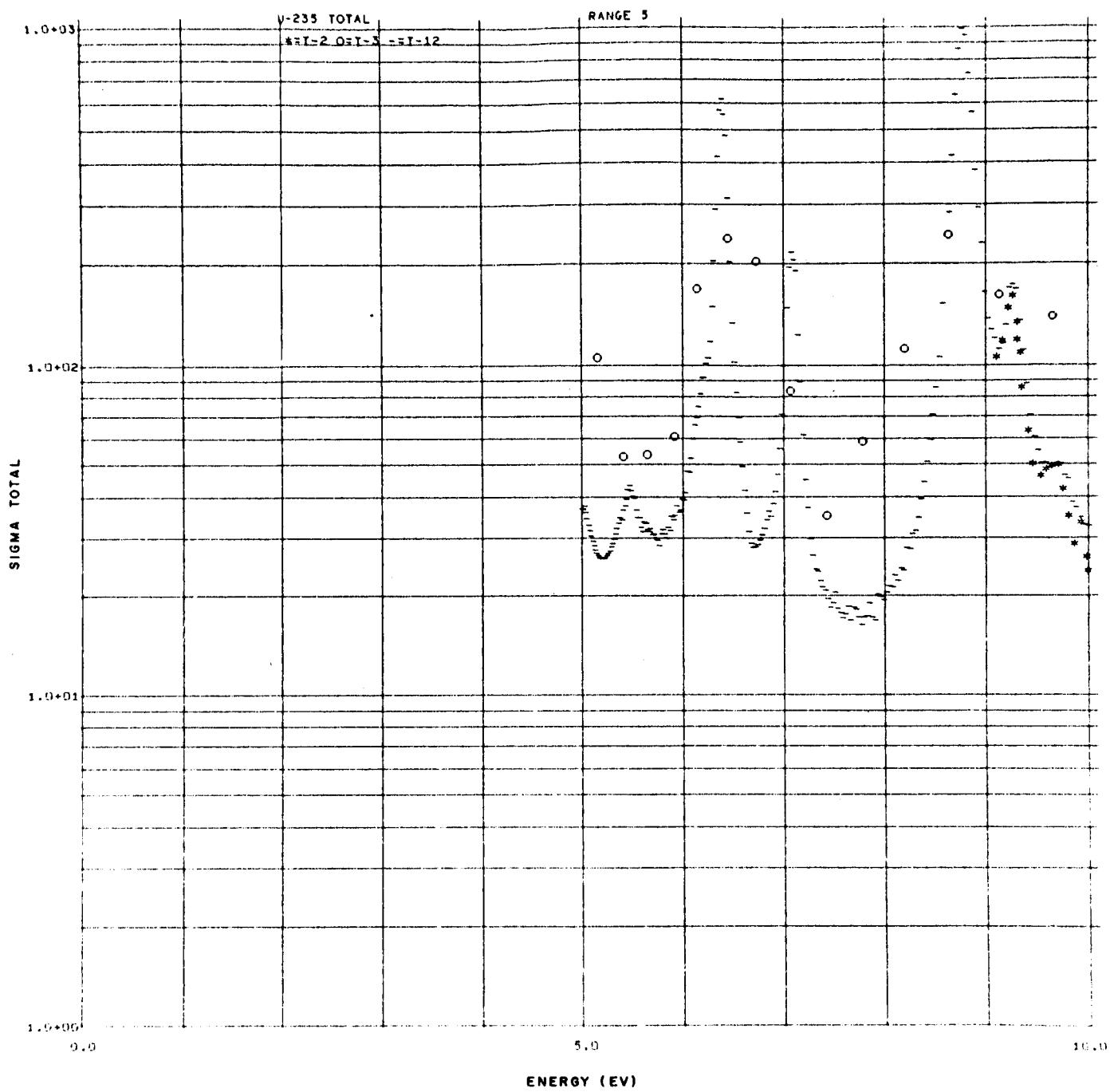


Figure 9

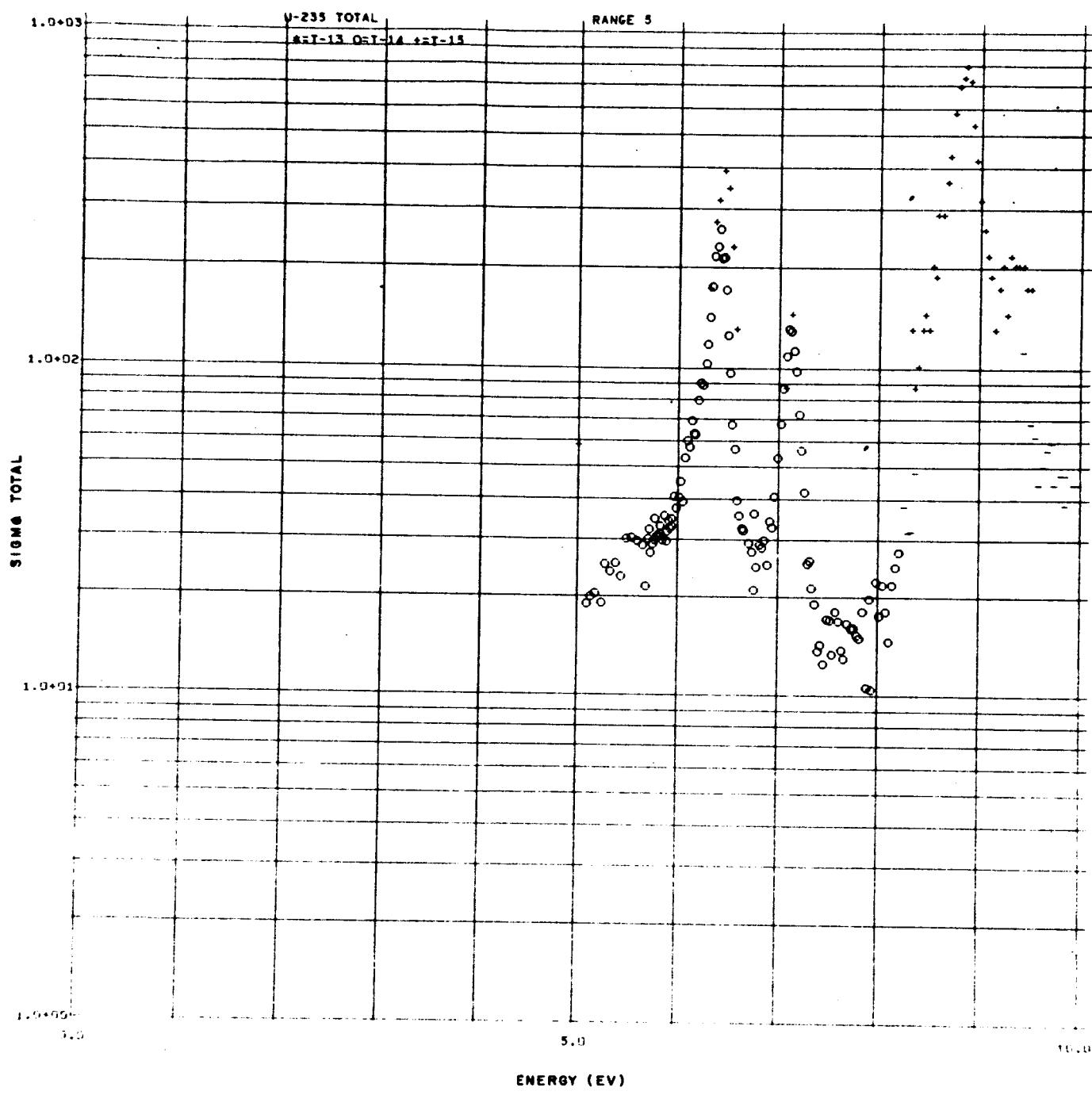


Figure 10

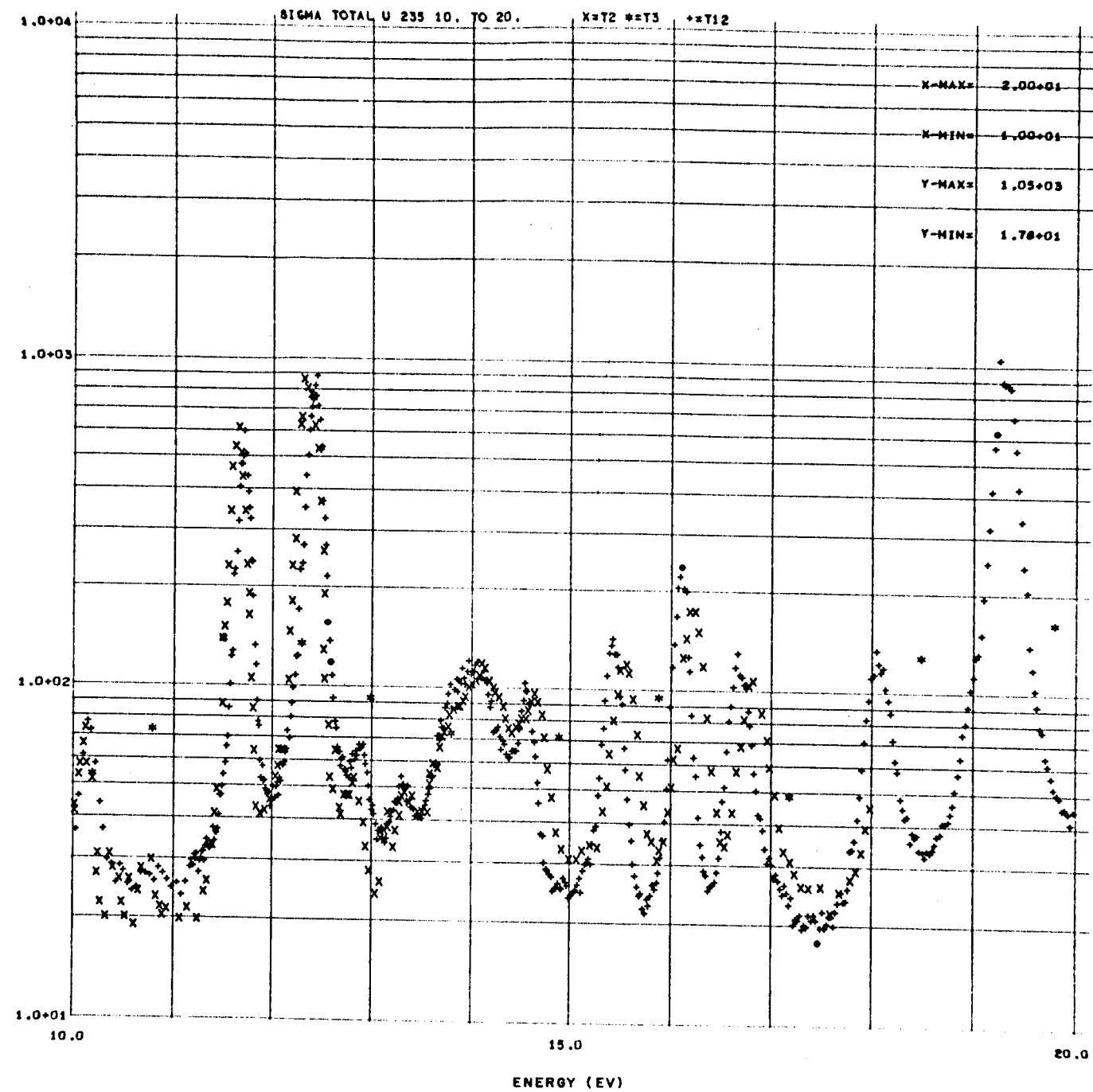


Figure 11

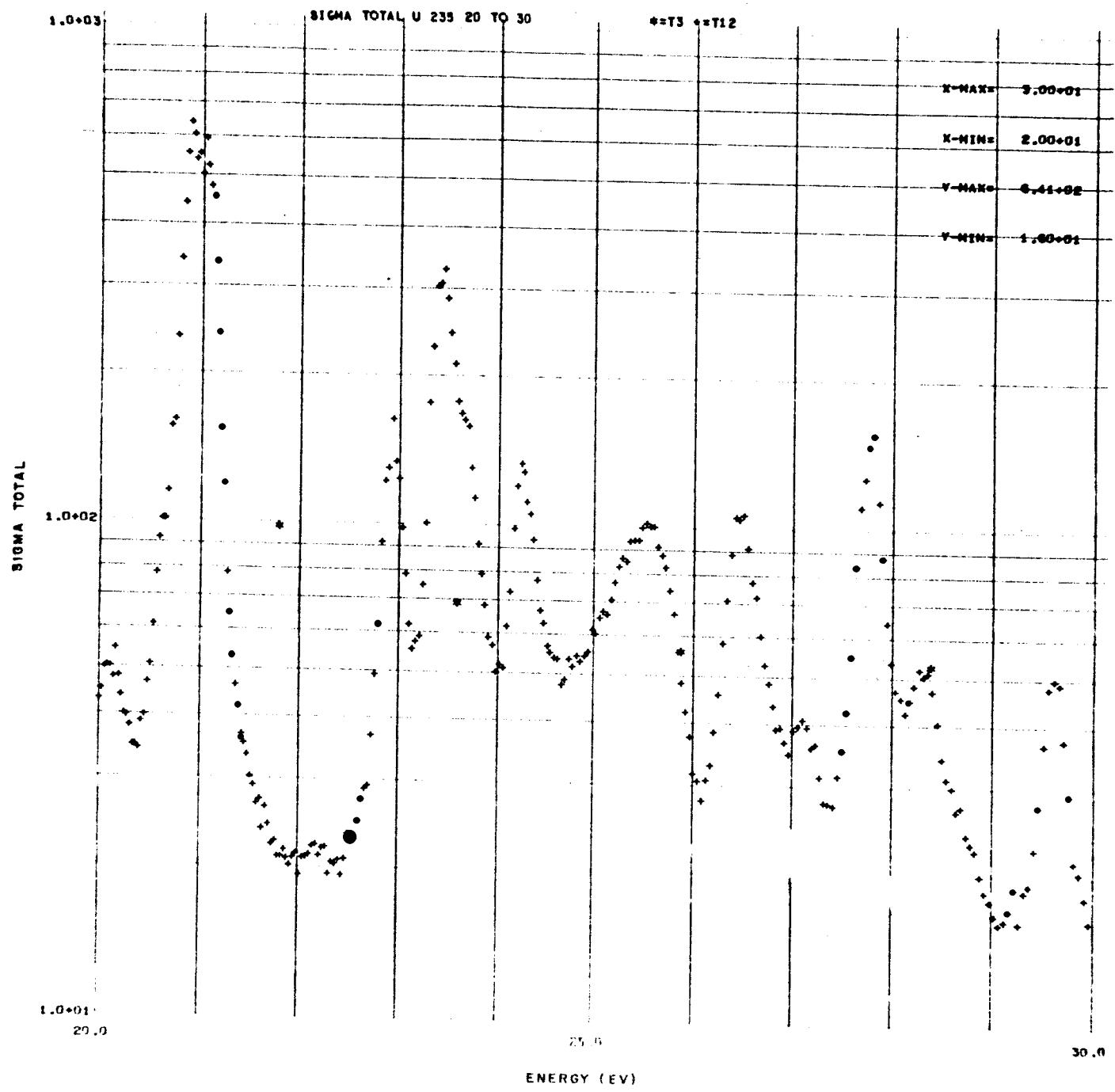


Figure 12

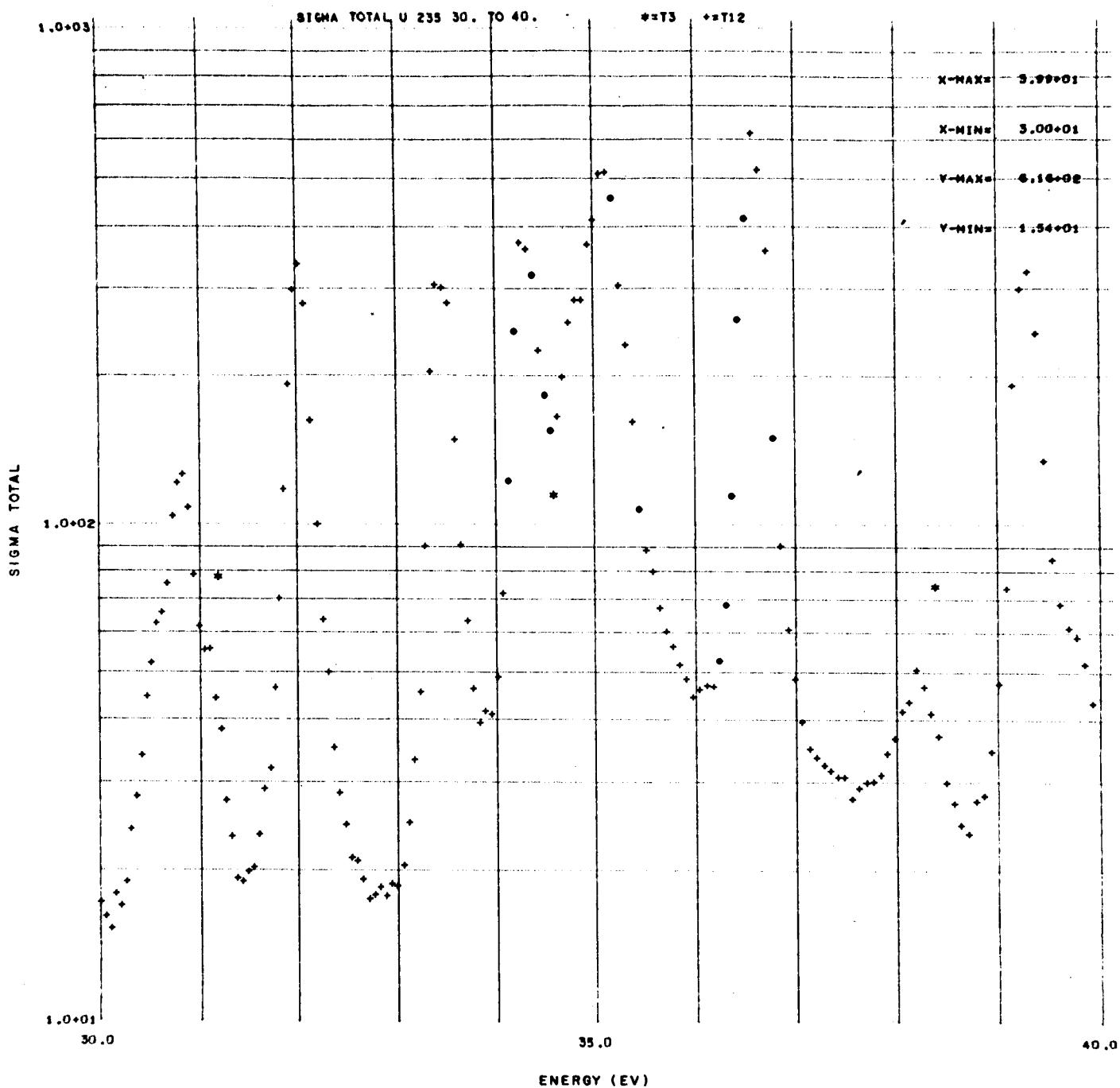


Figure 13

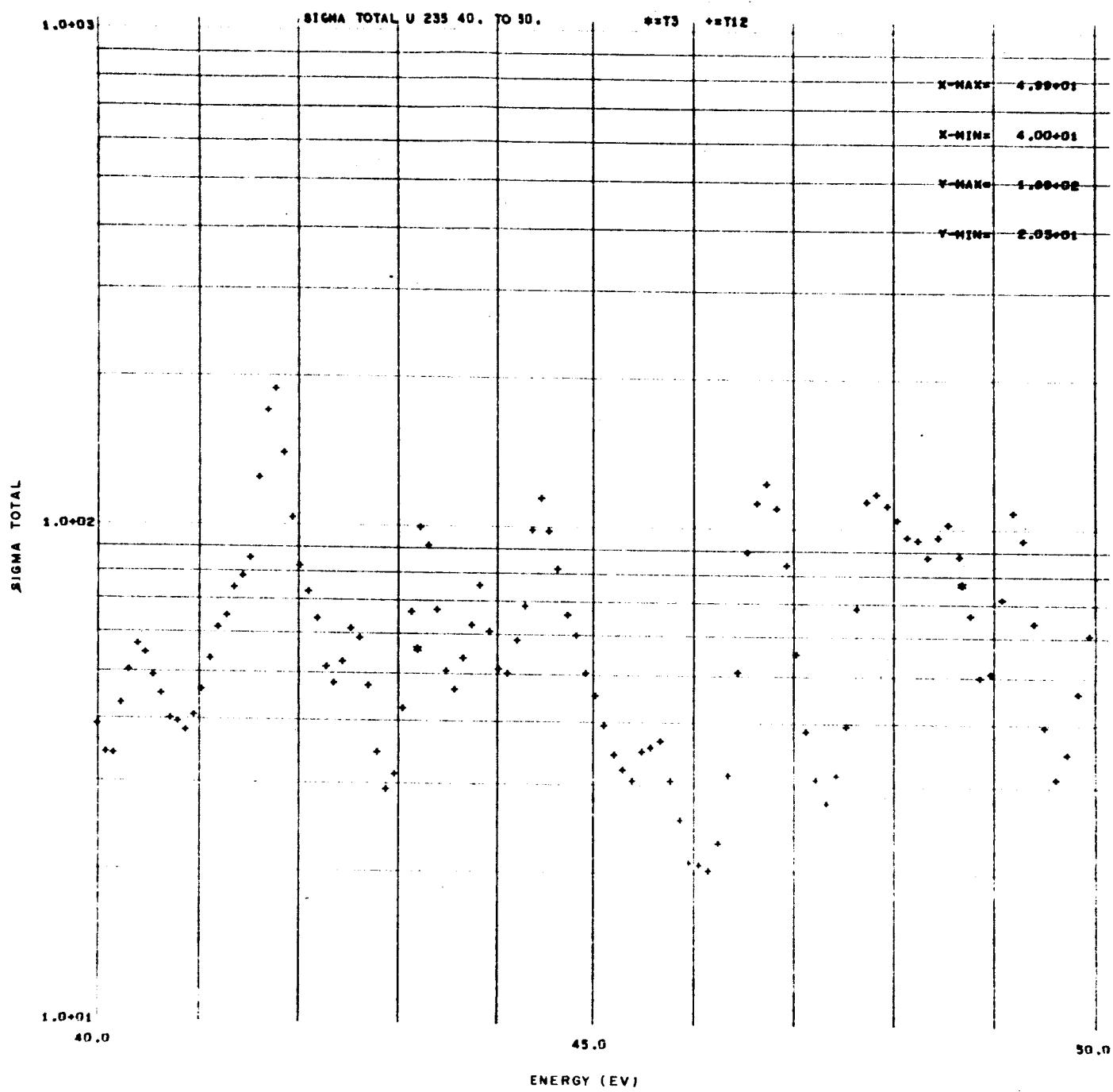


Figure 14

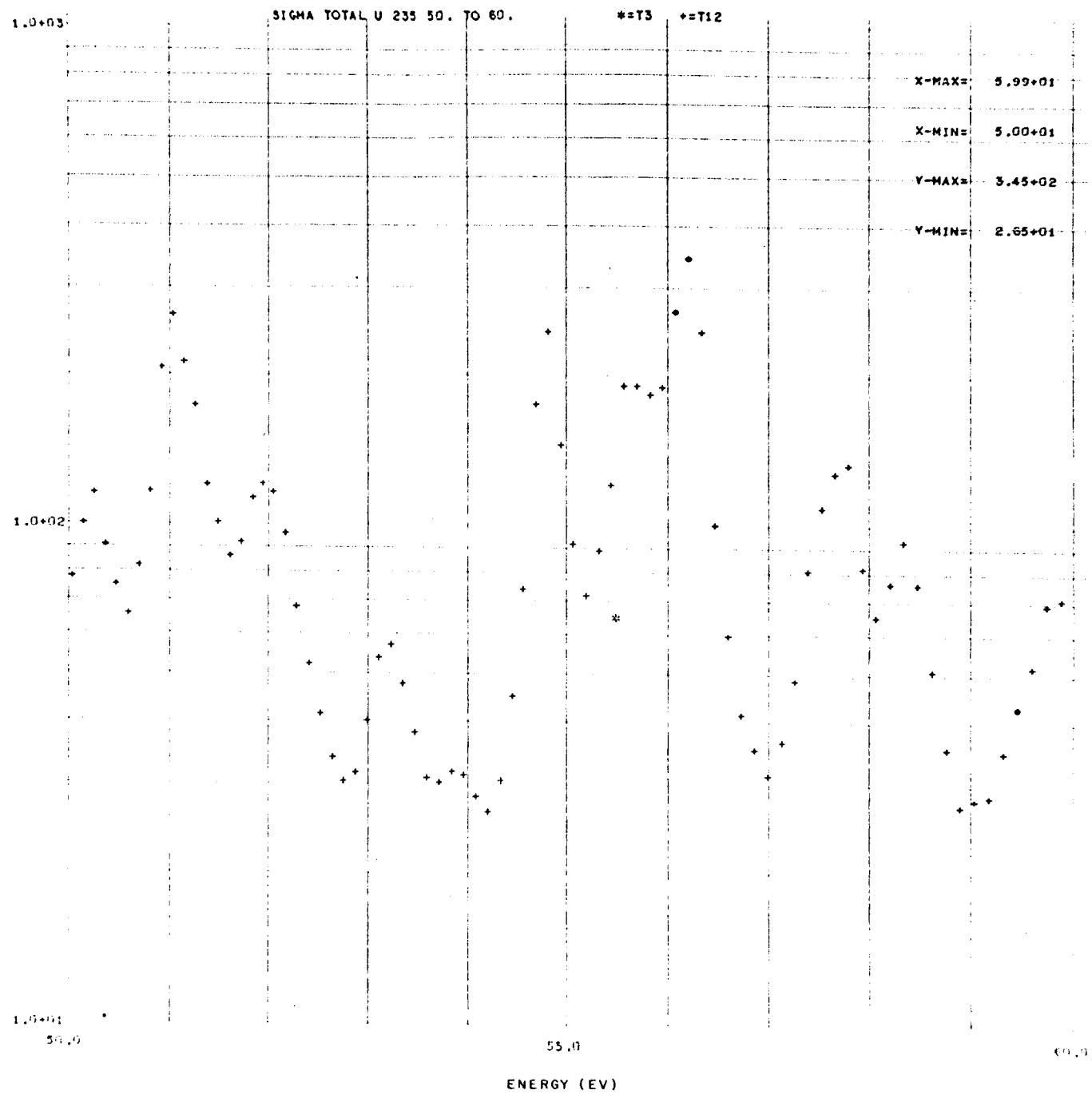


Figure 15

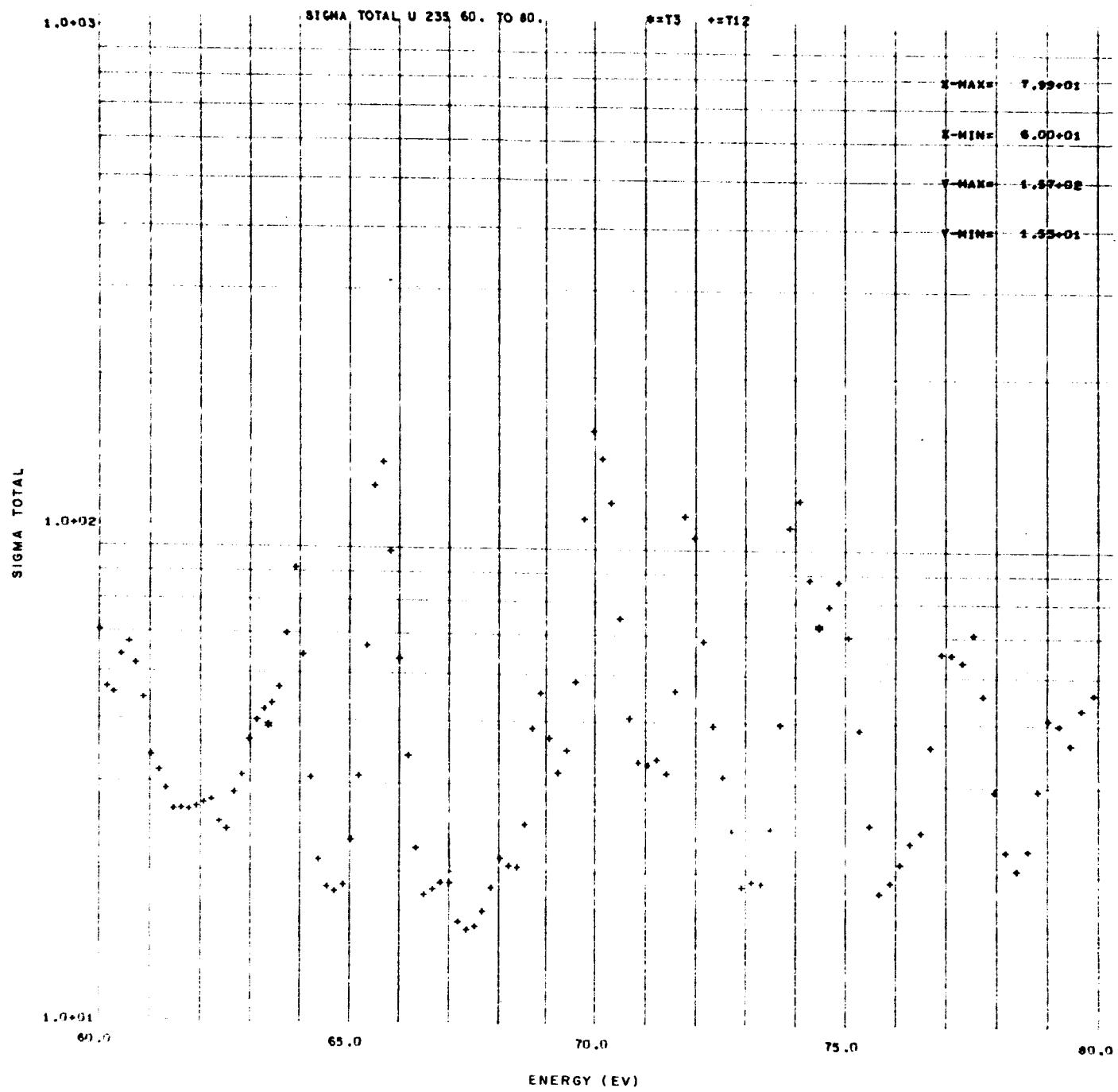


Figure 16

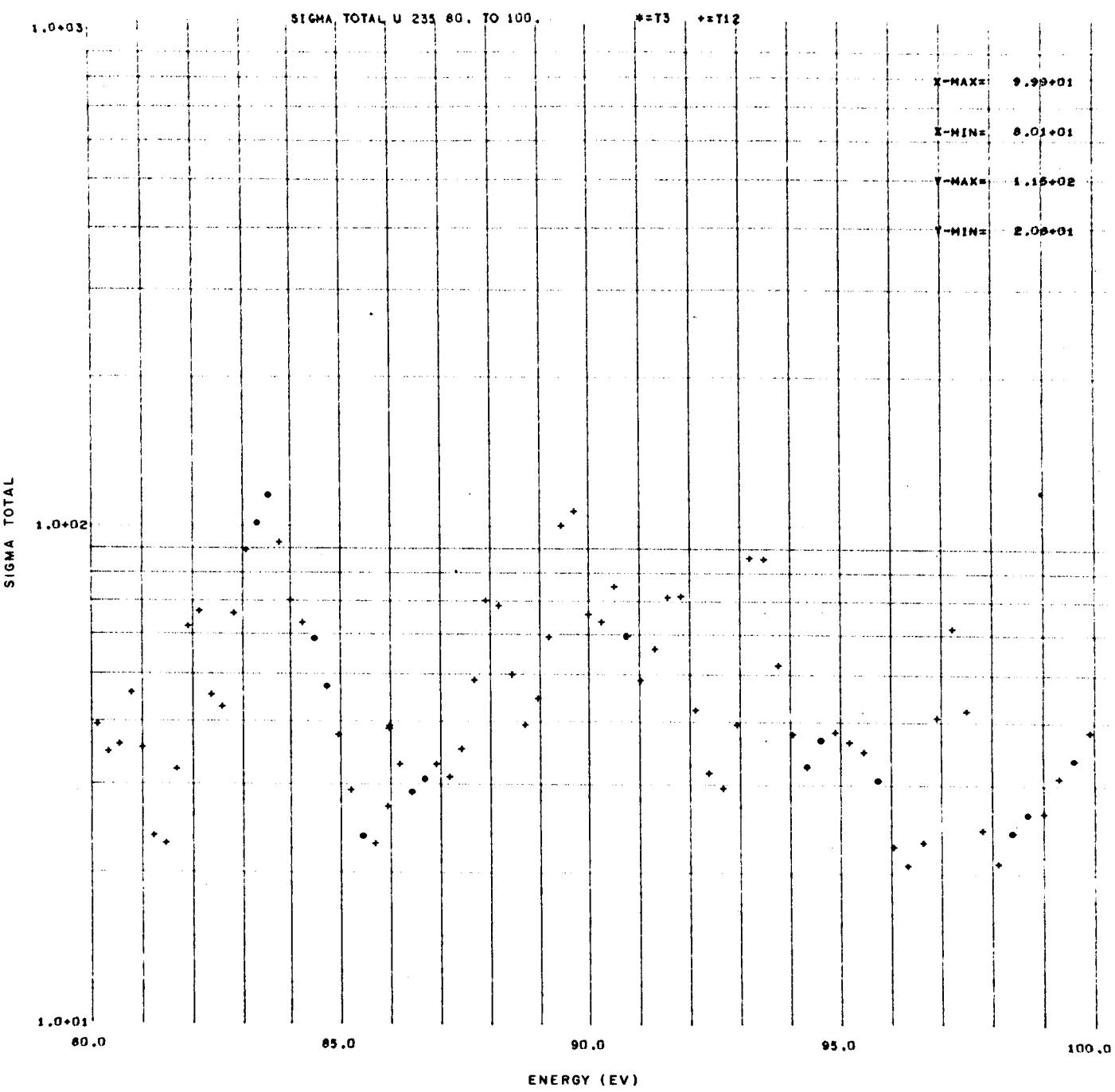


Figure 17

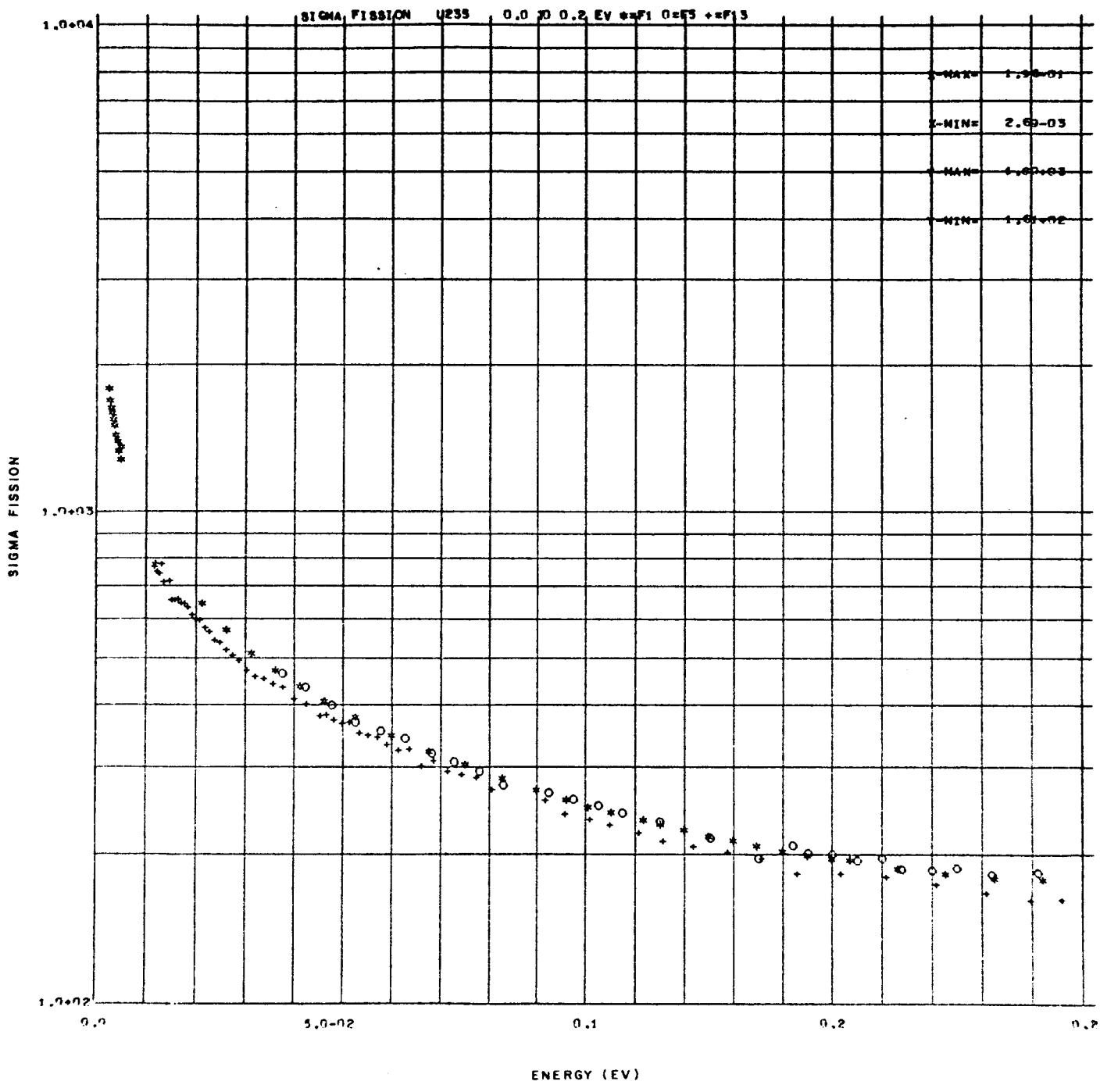


Figure 19

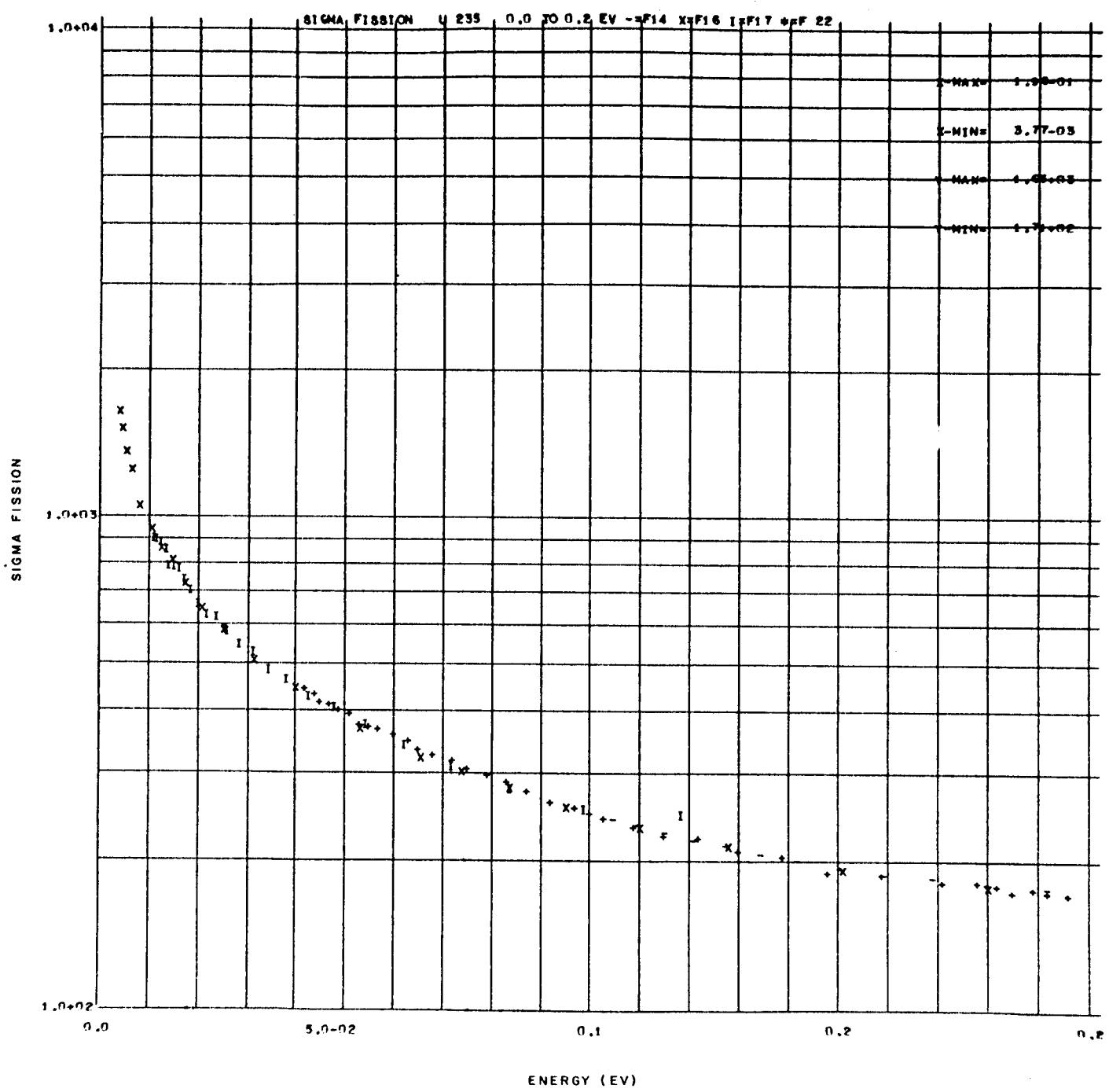


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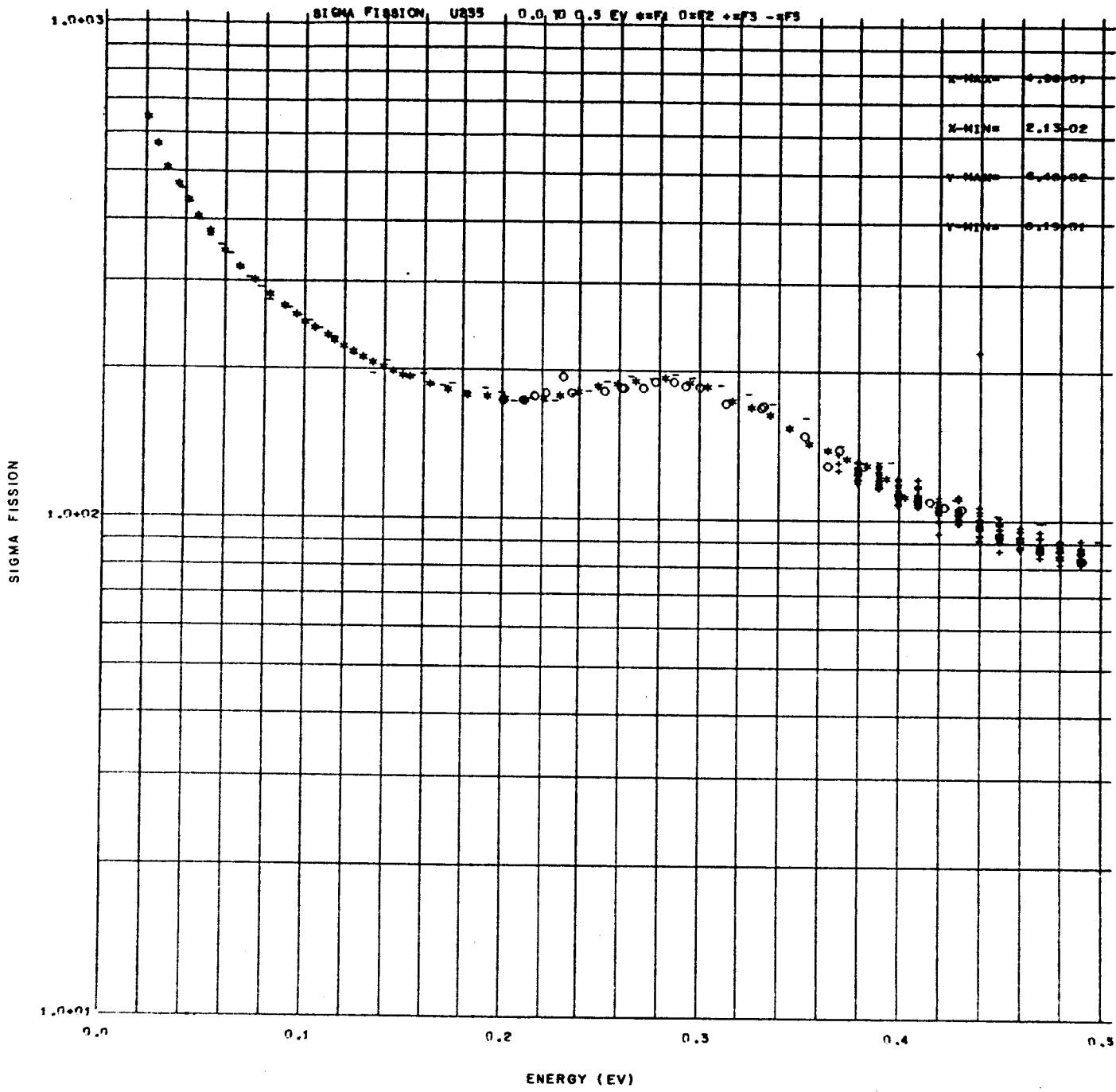


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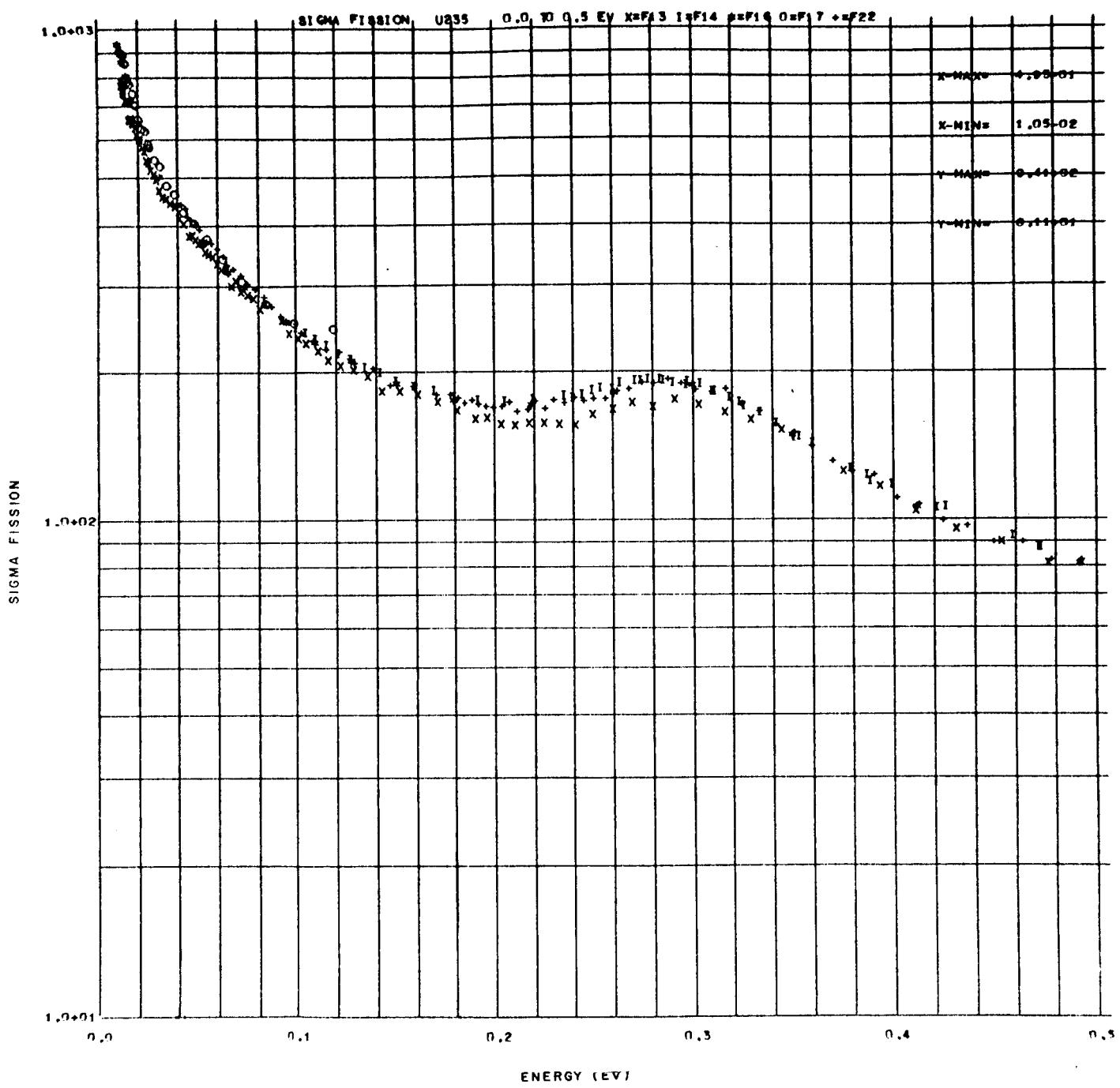


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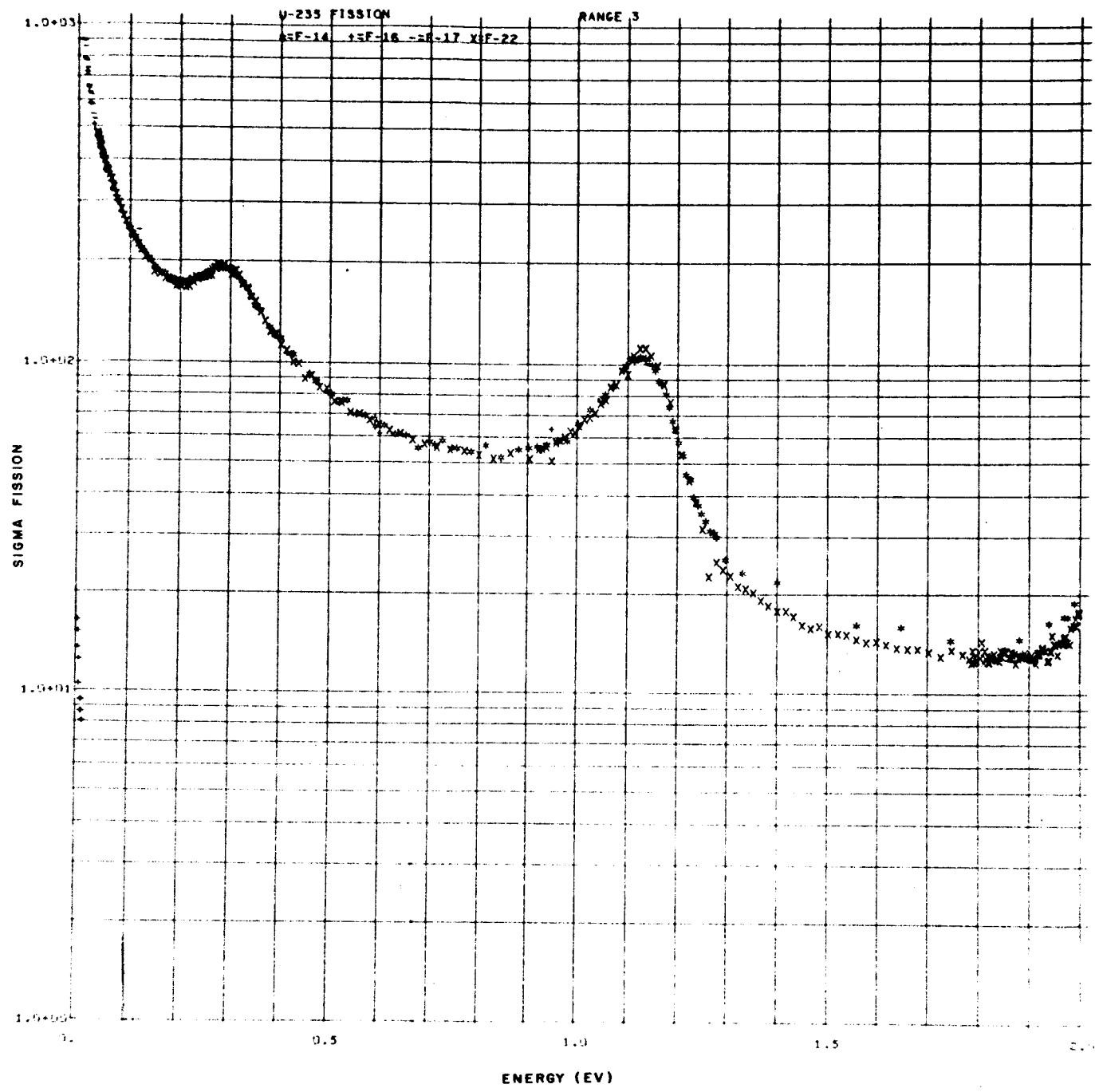


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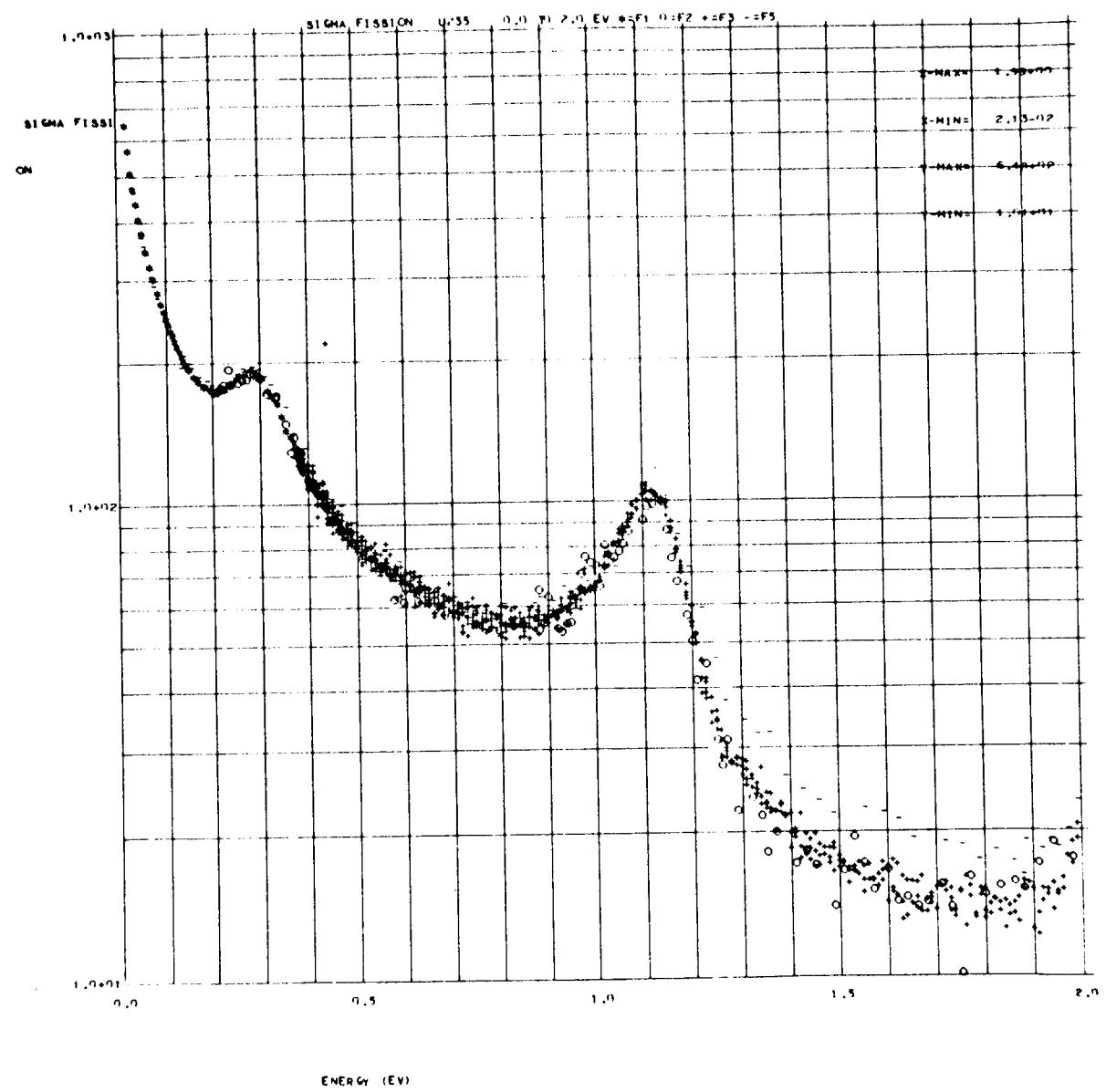


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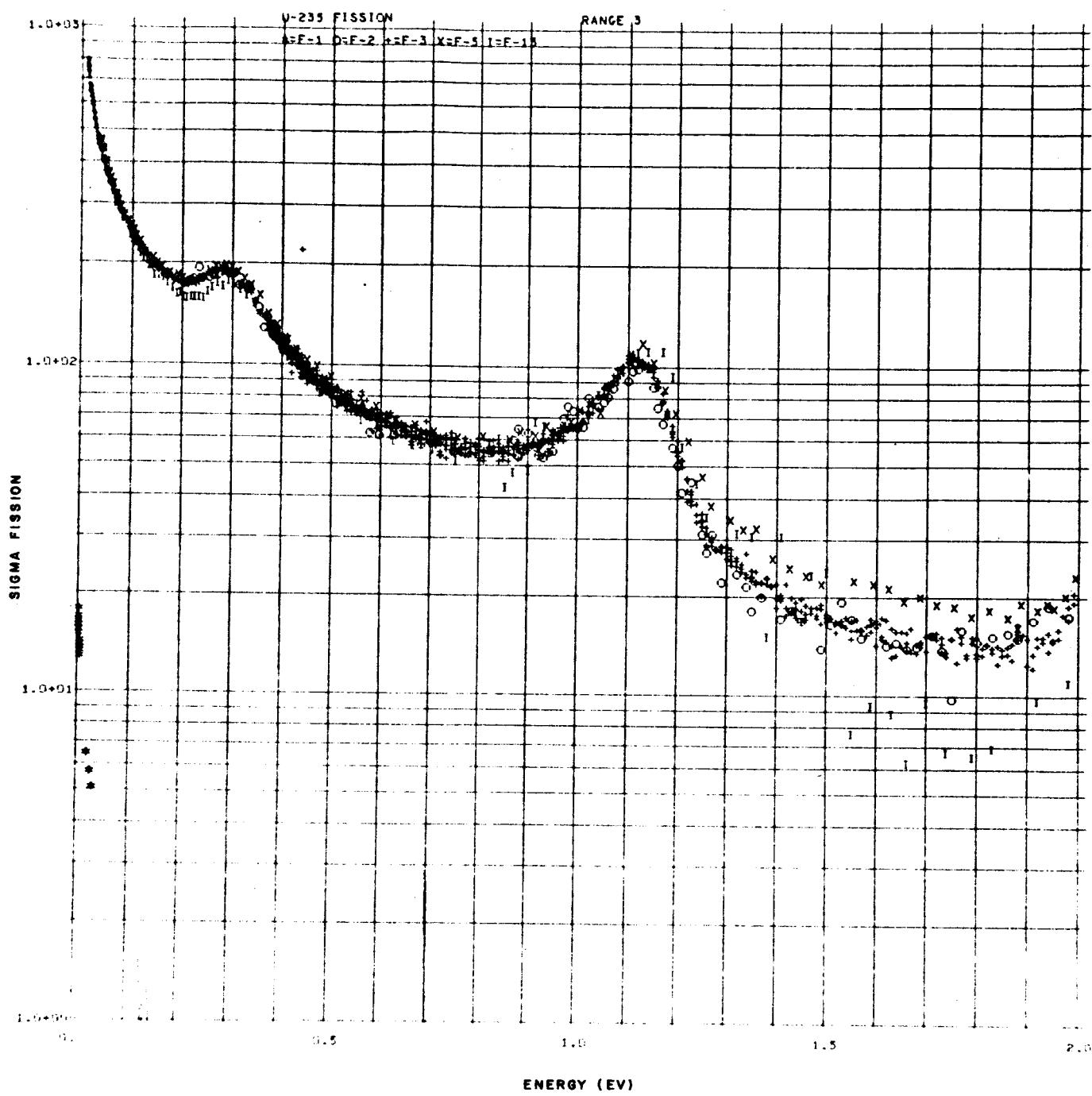


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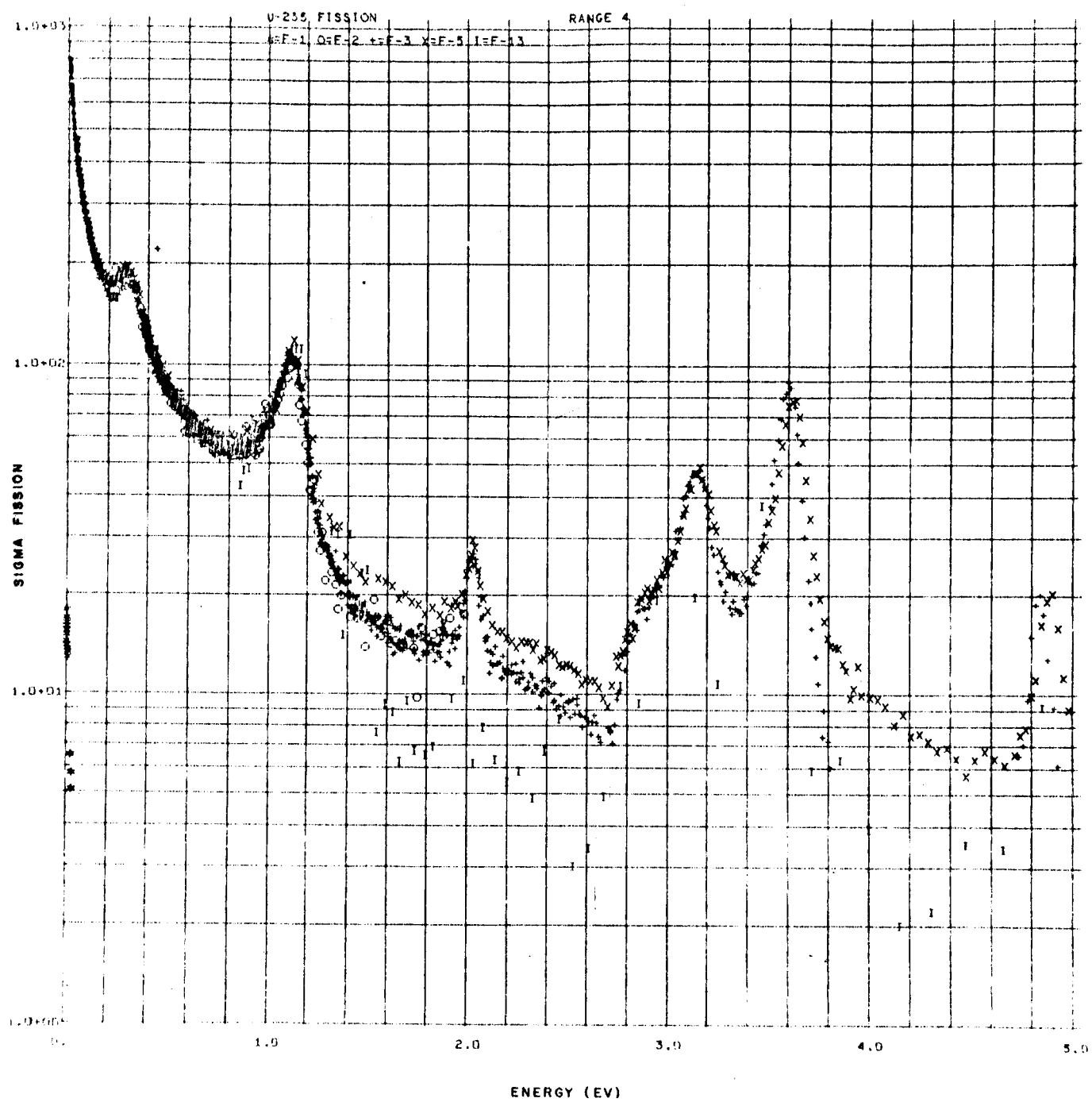


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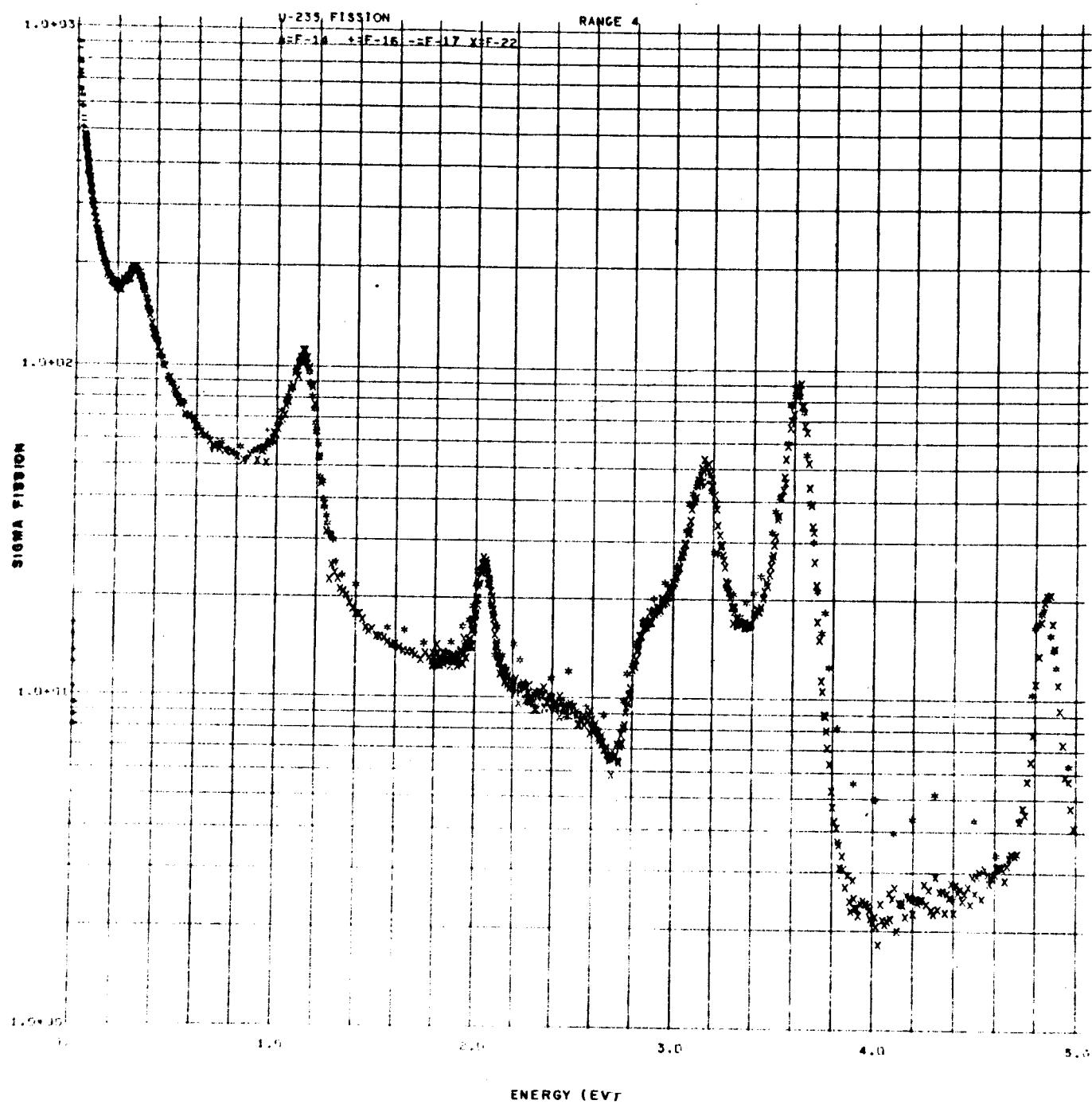


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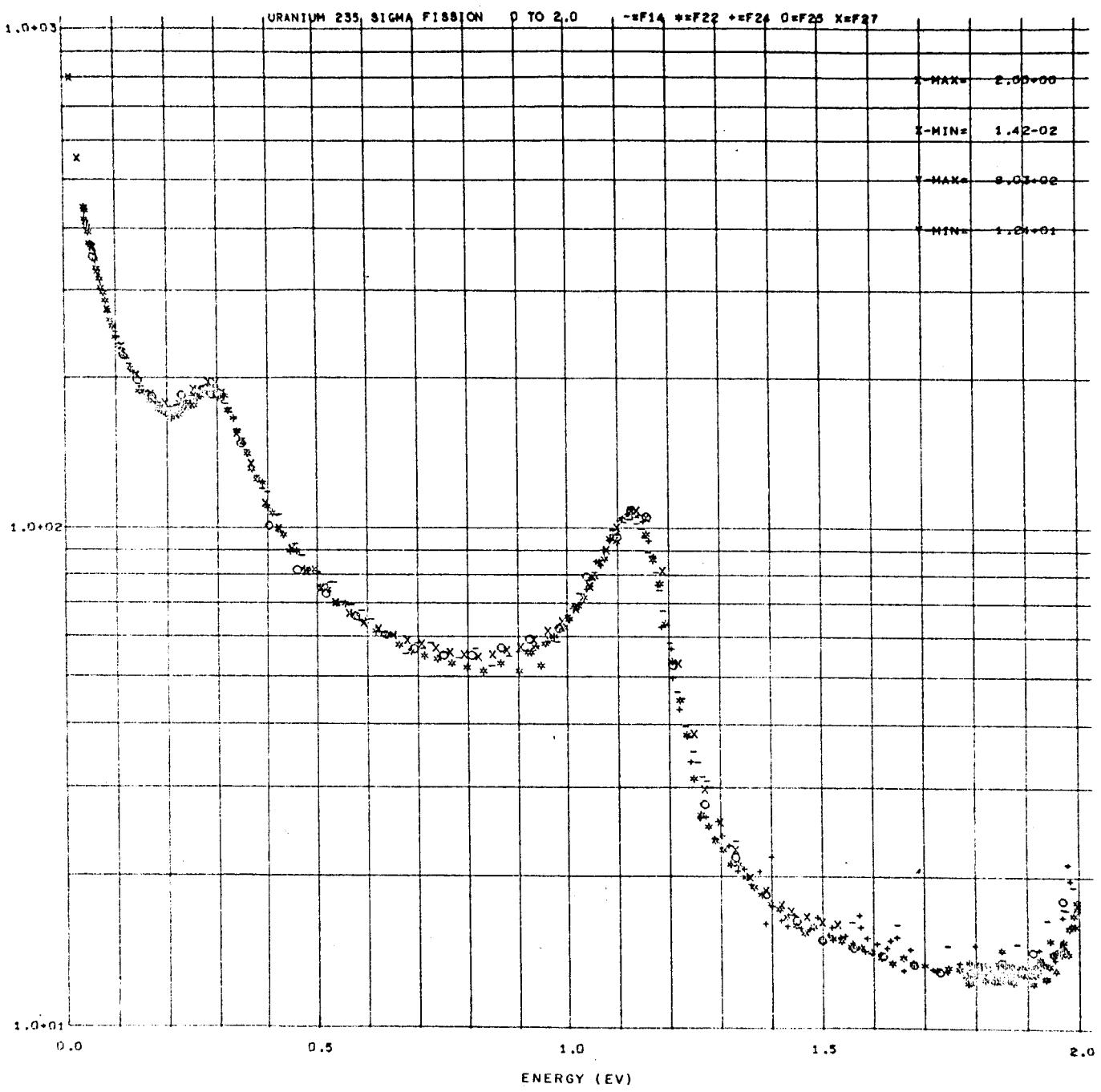


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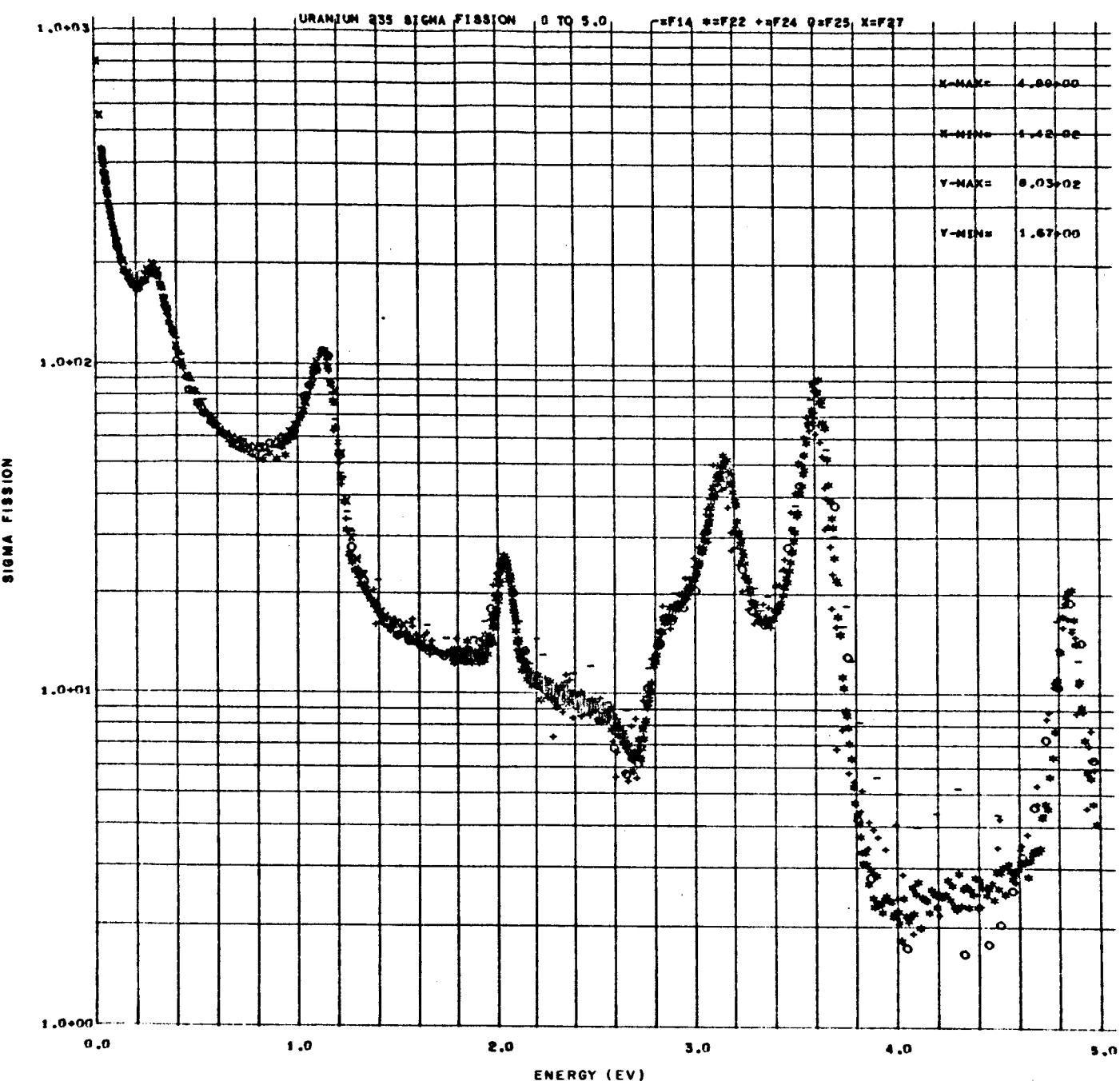


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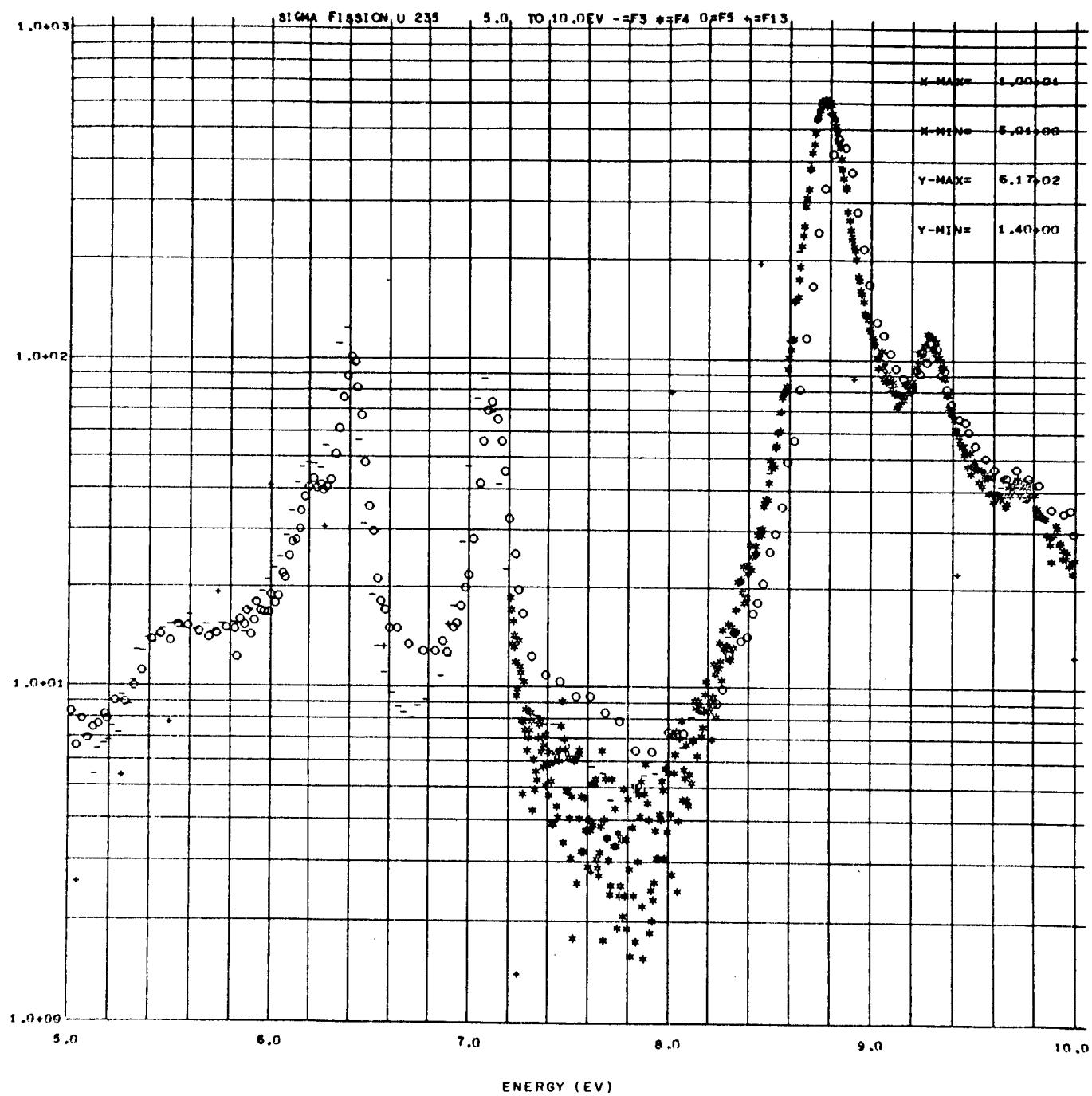


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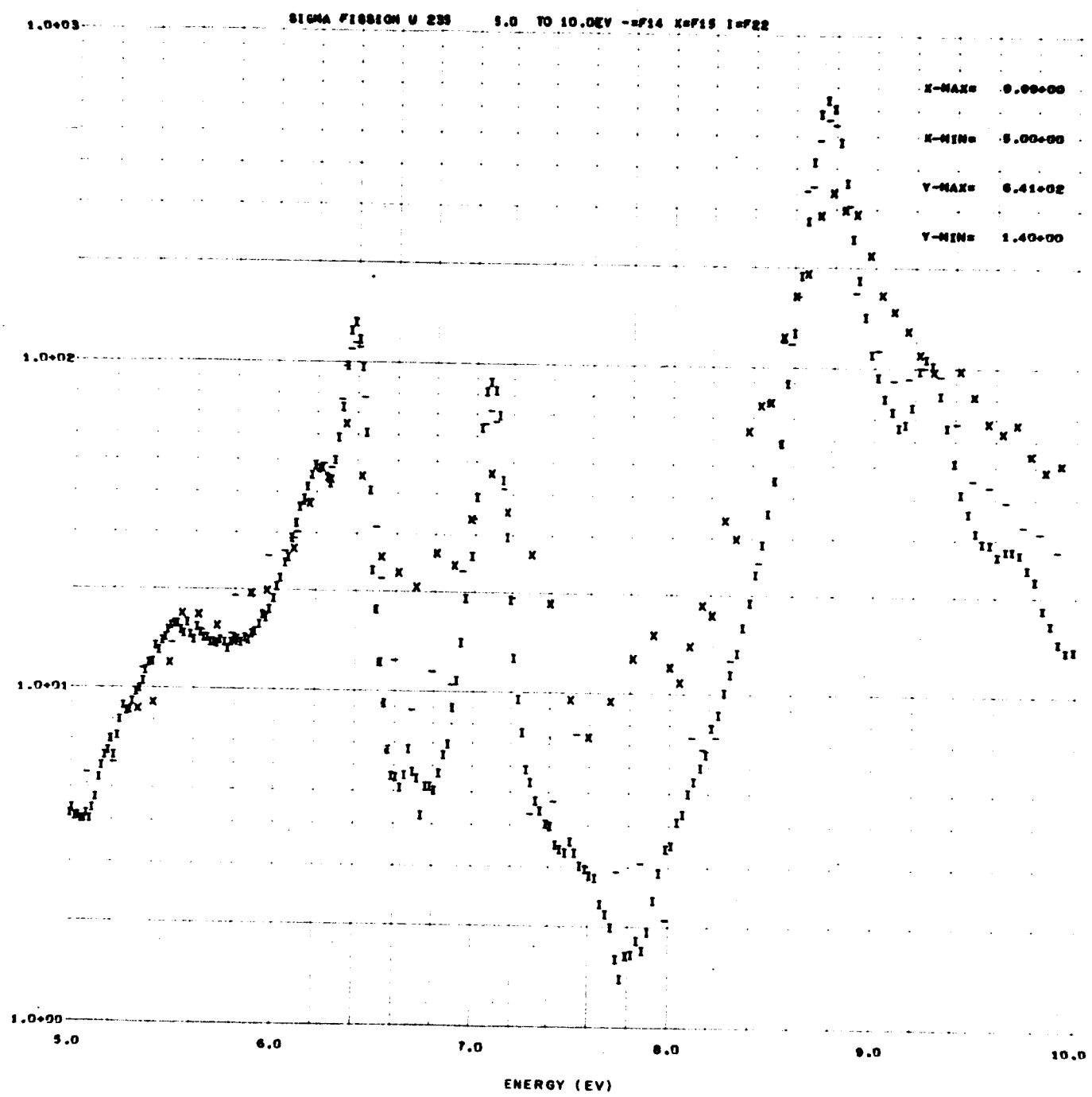


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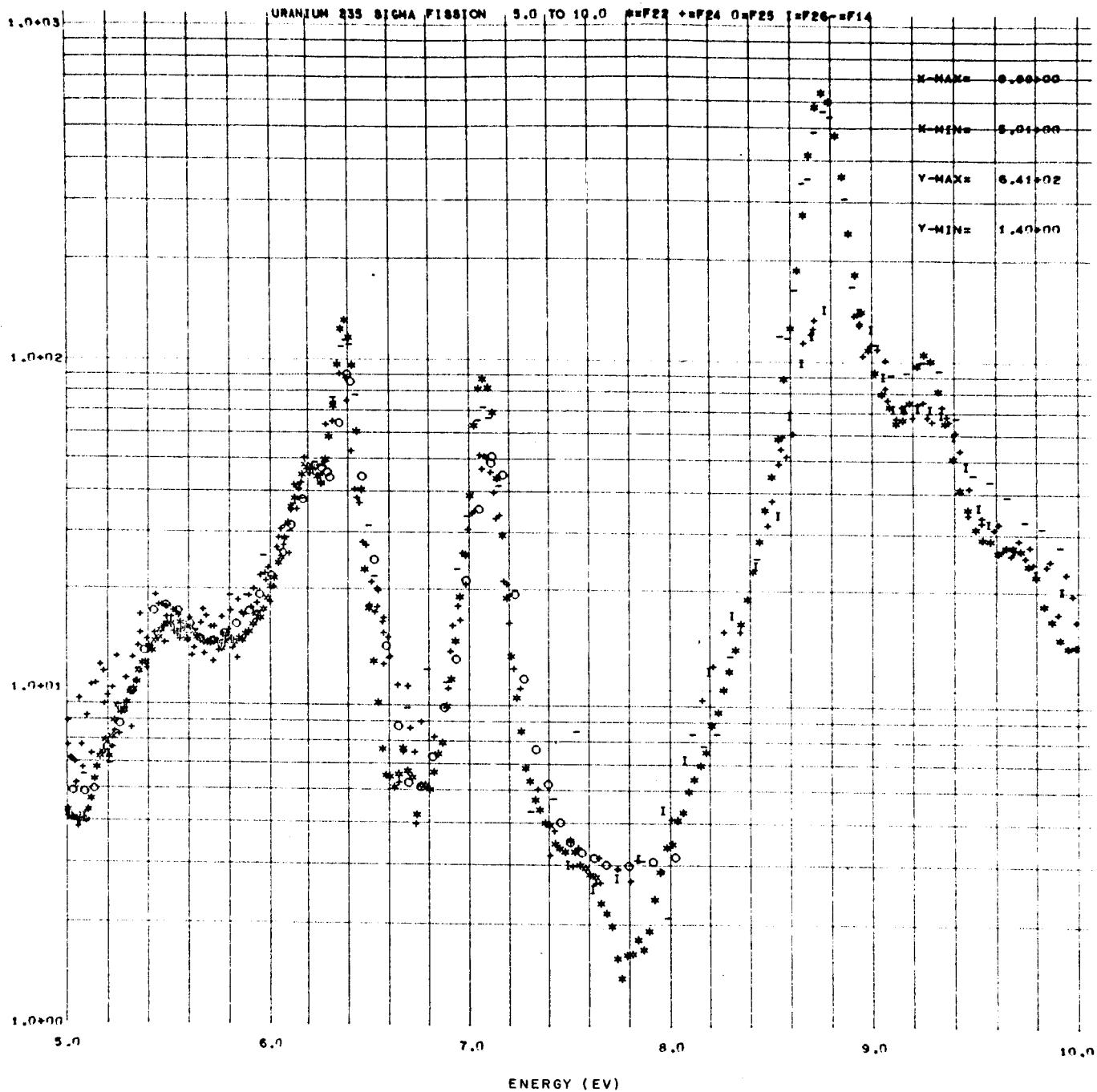


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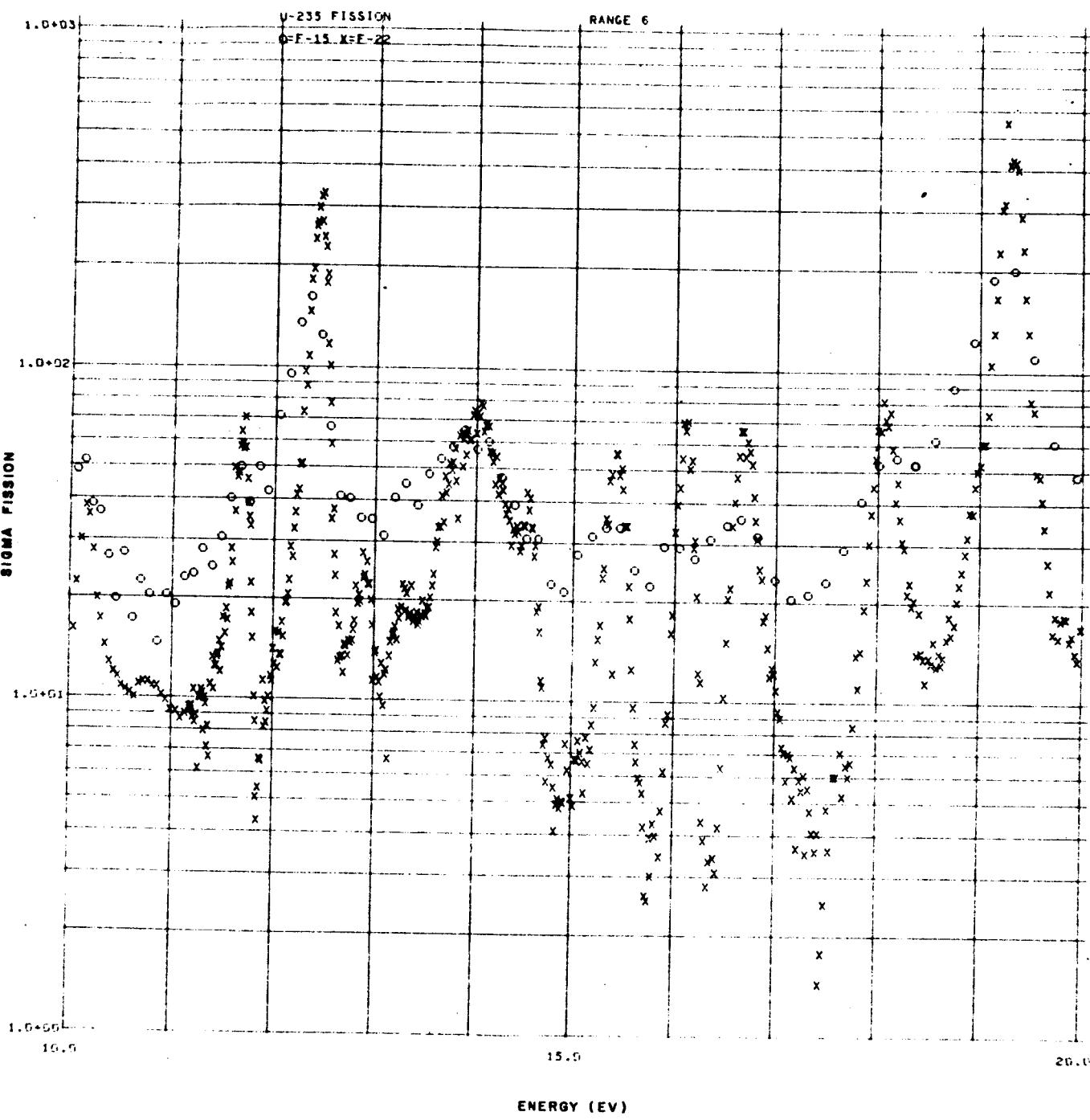


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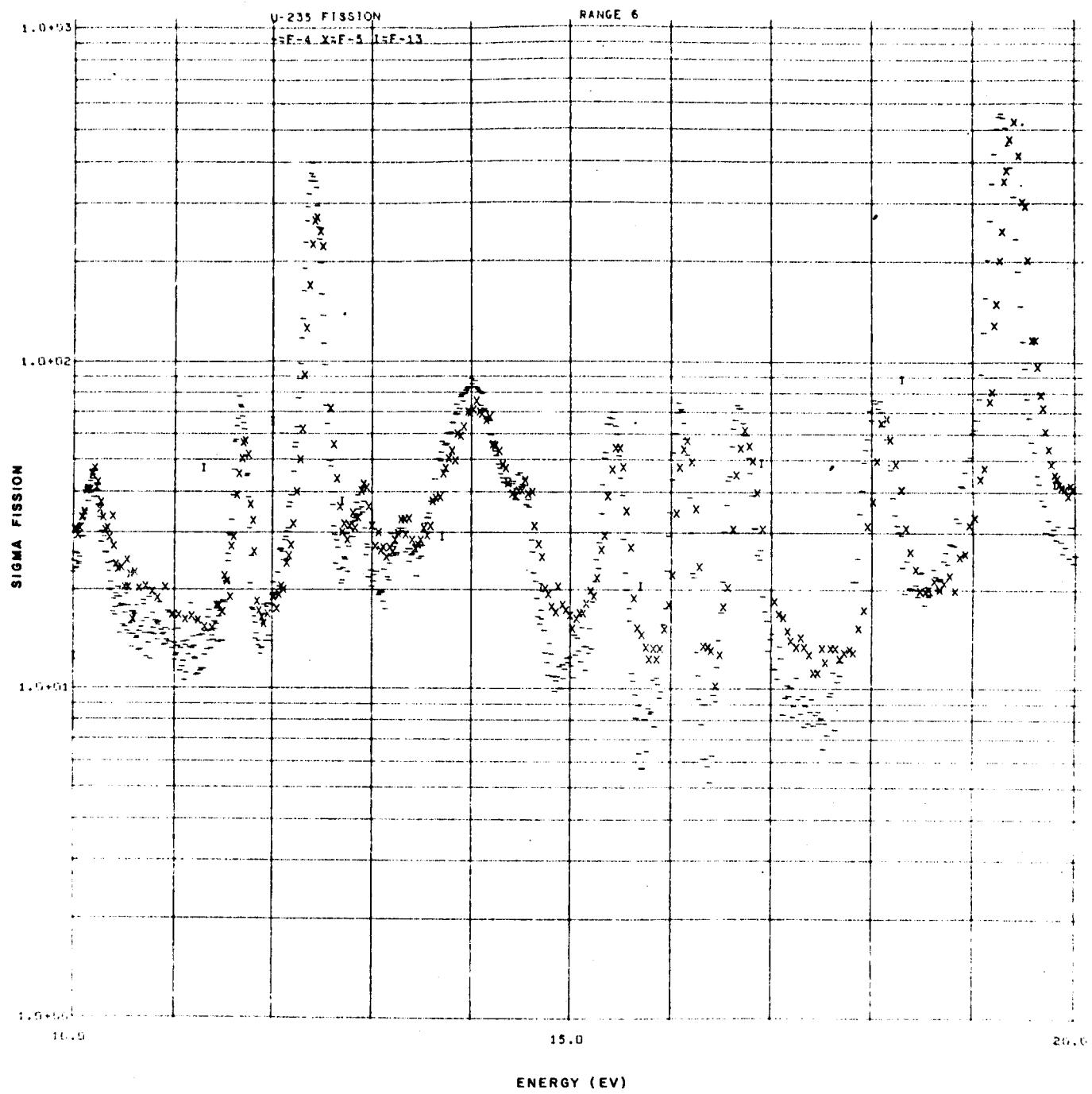


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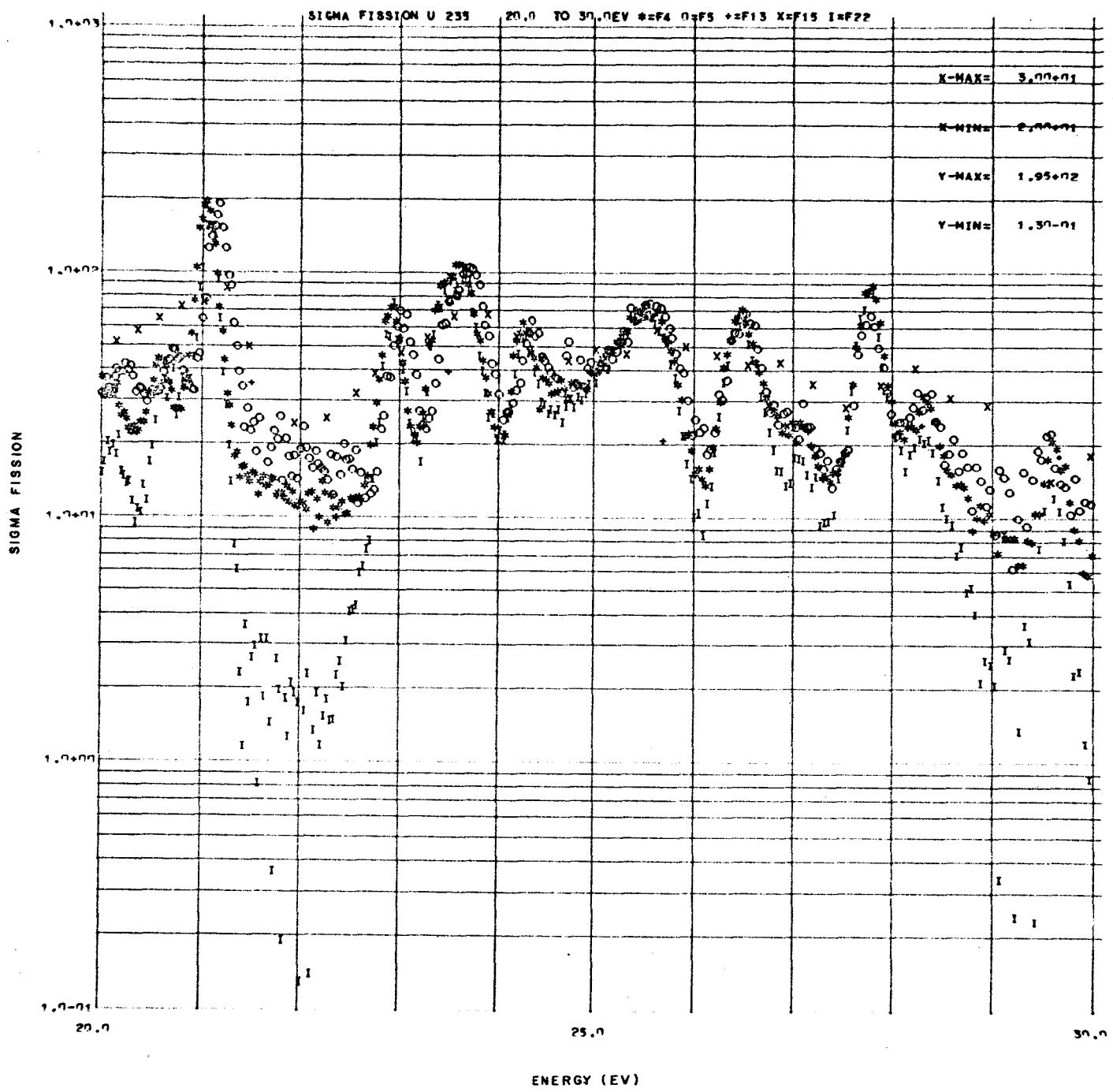


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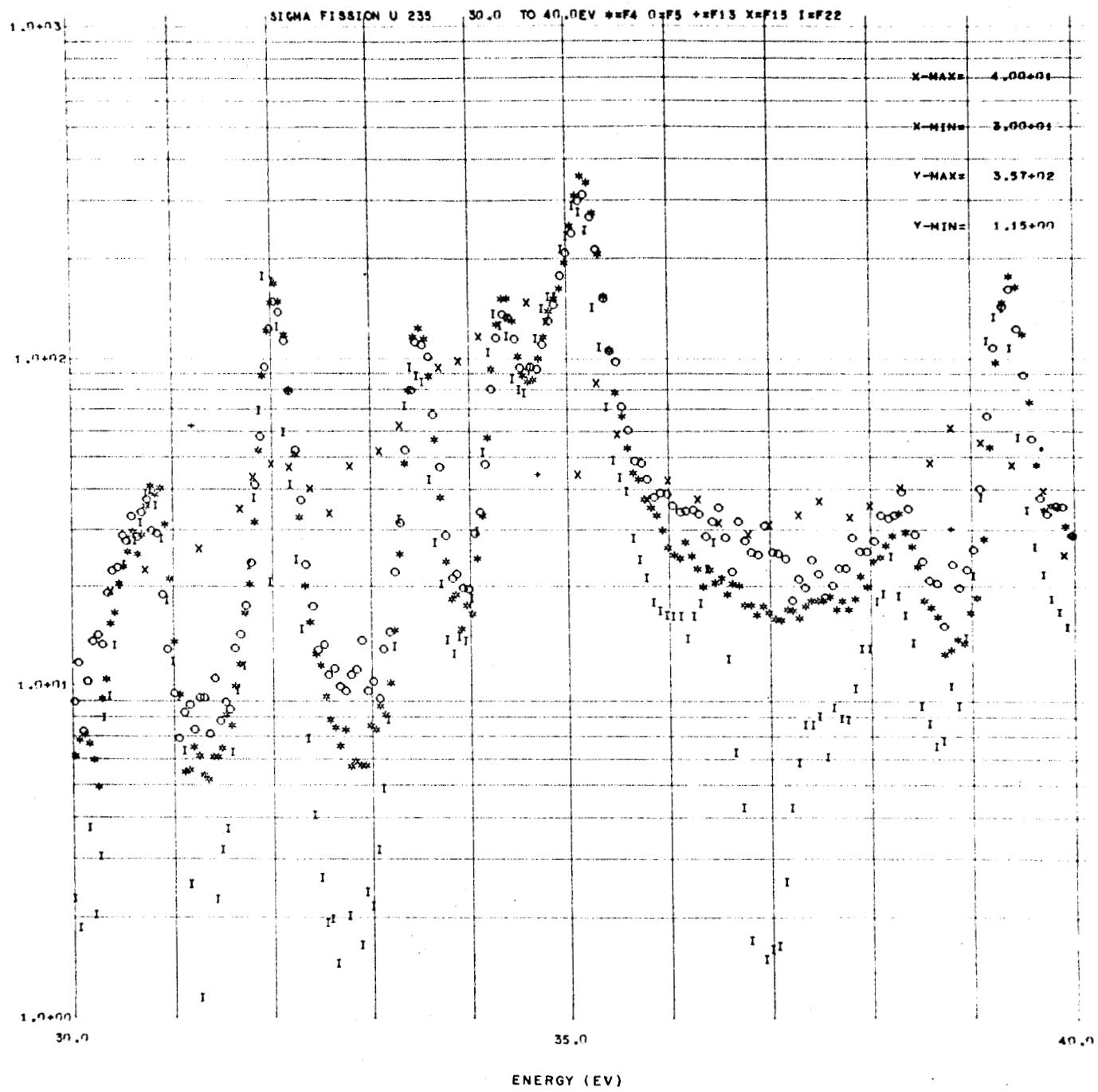


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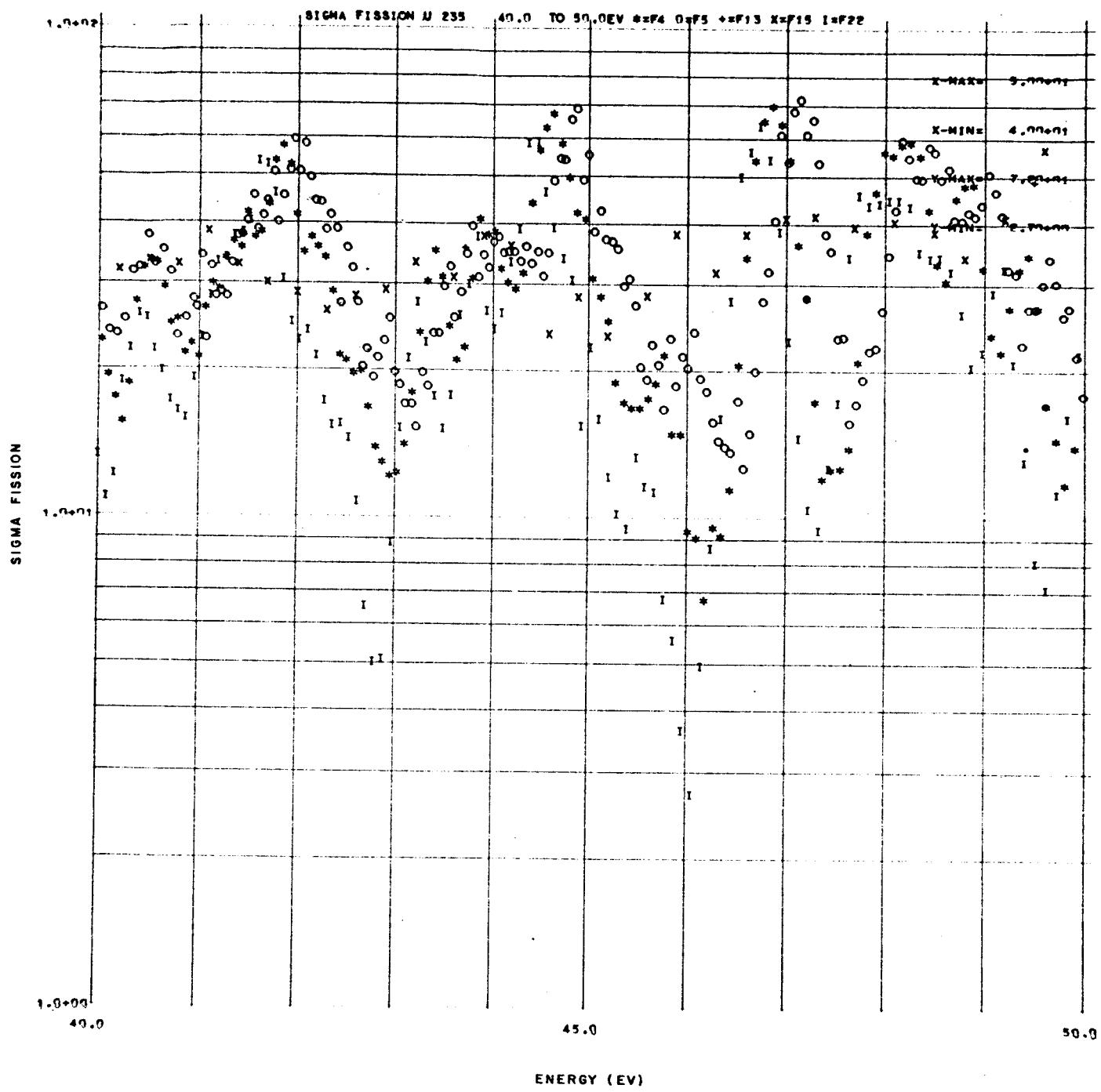


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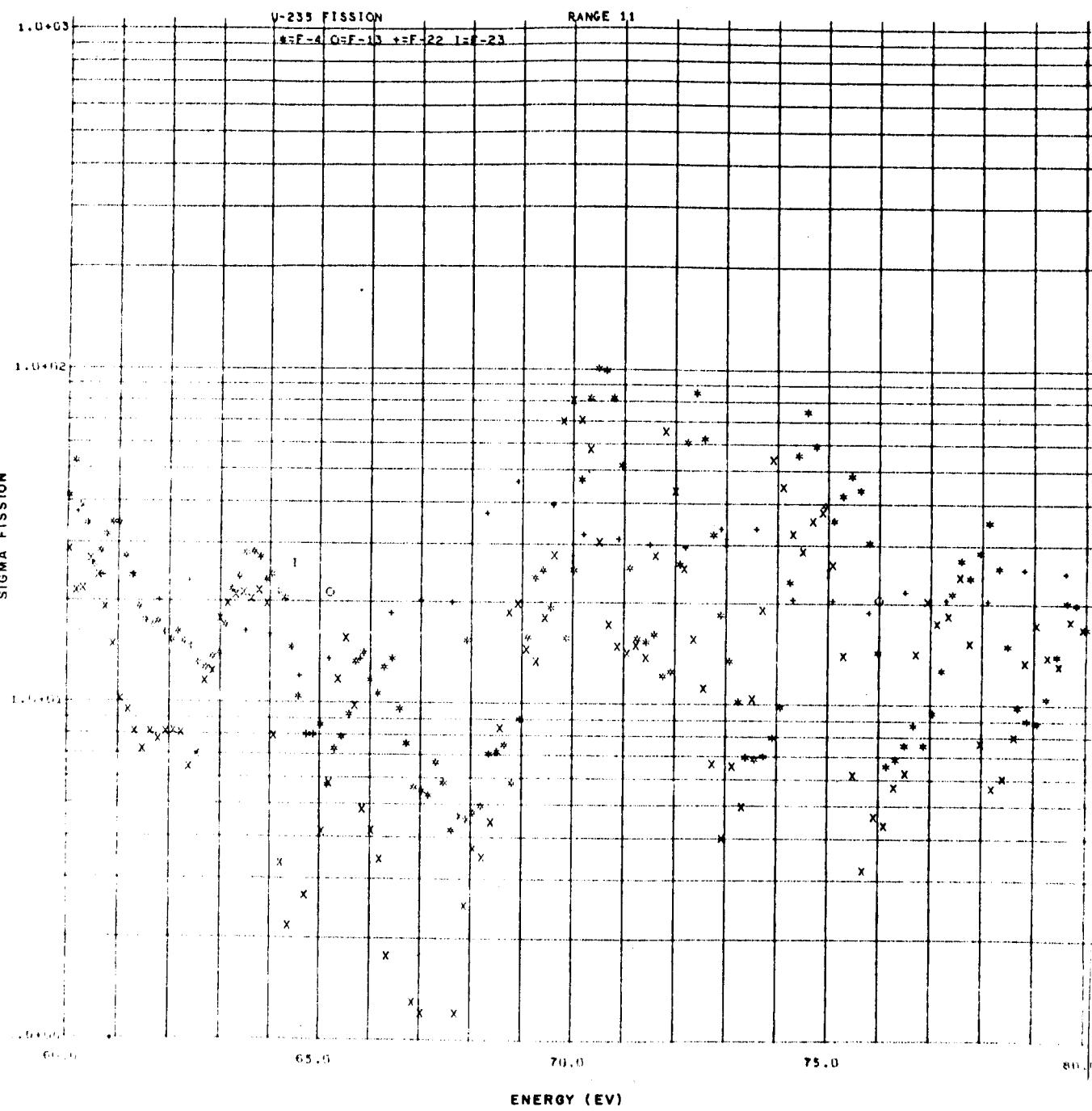


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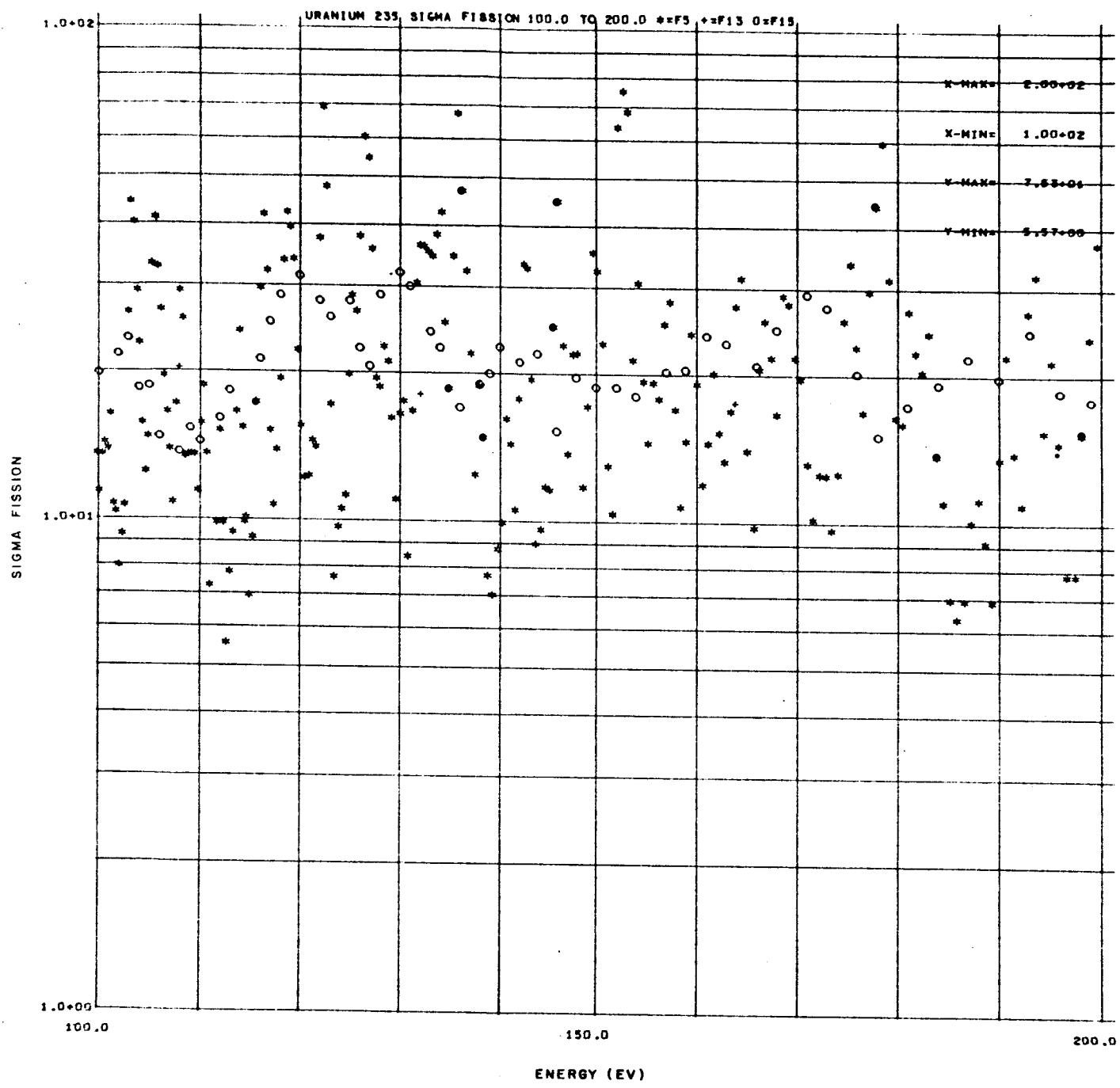


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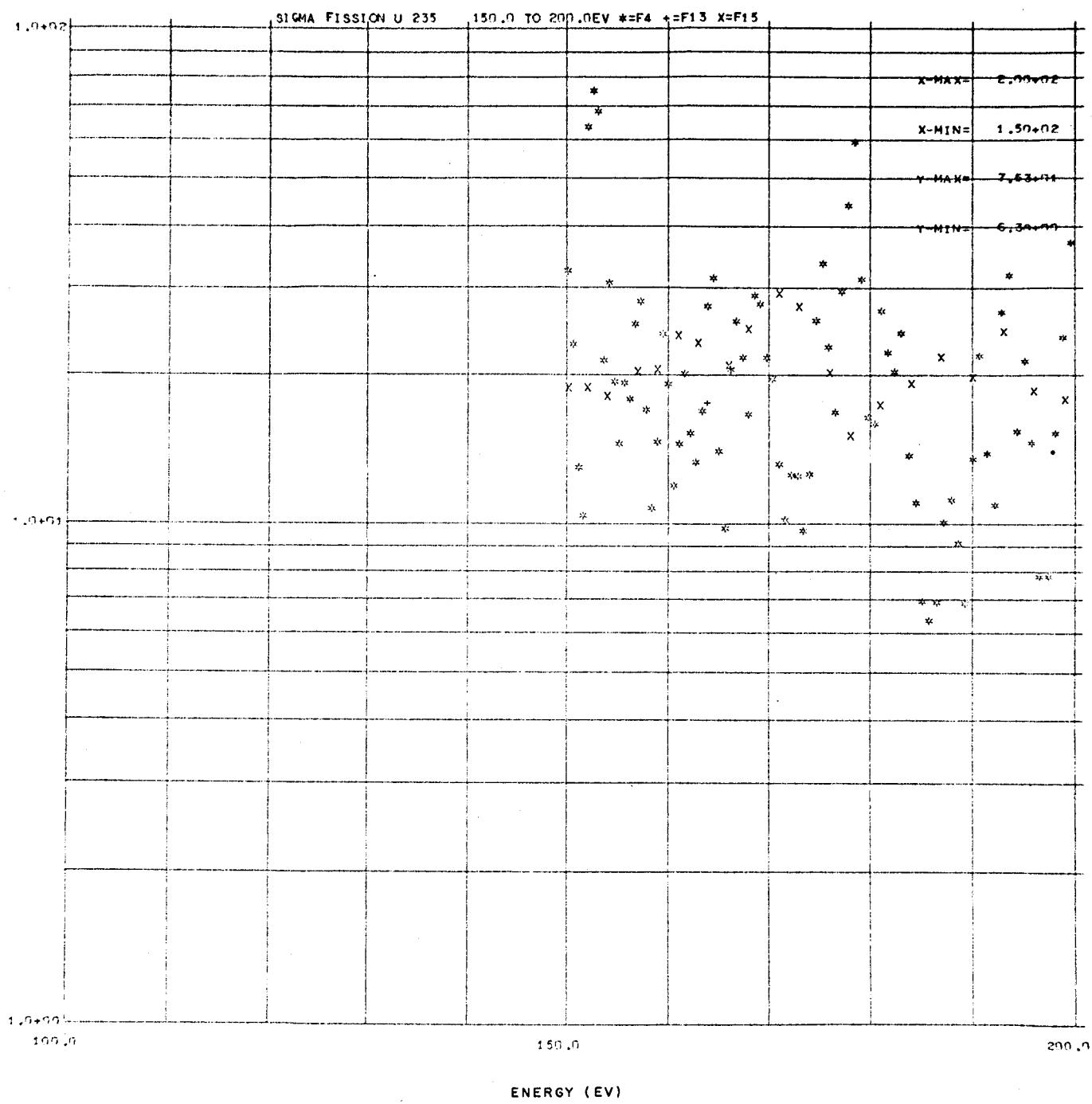


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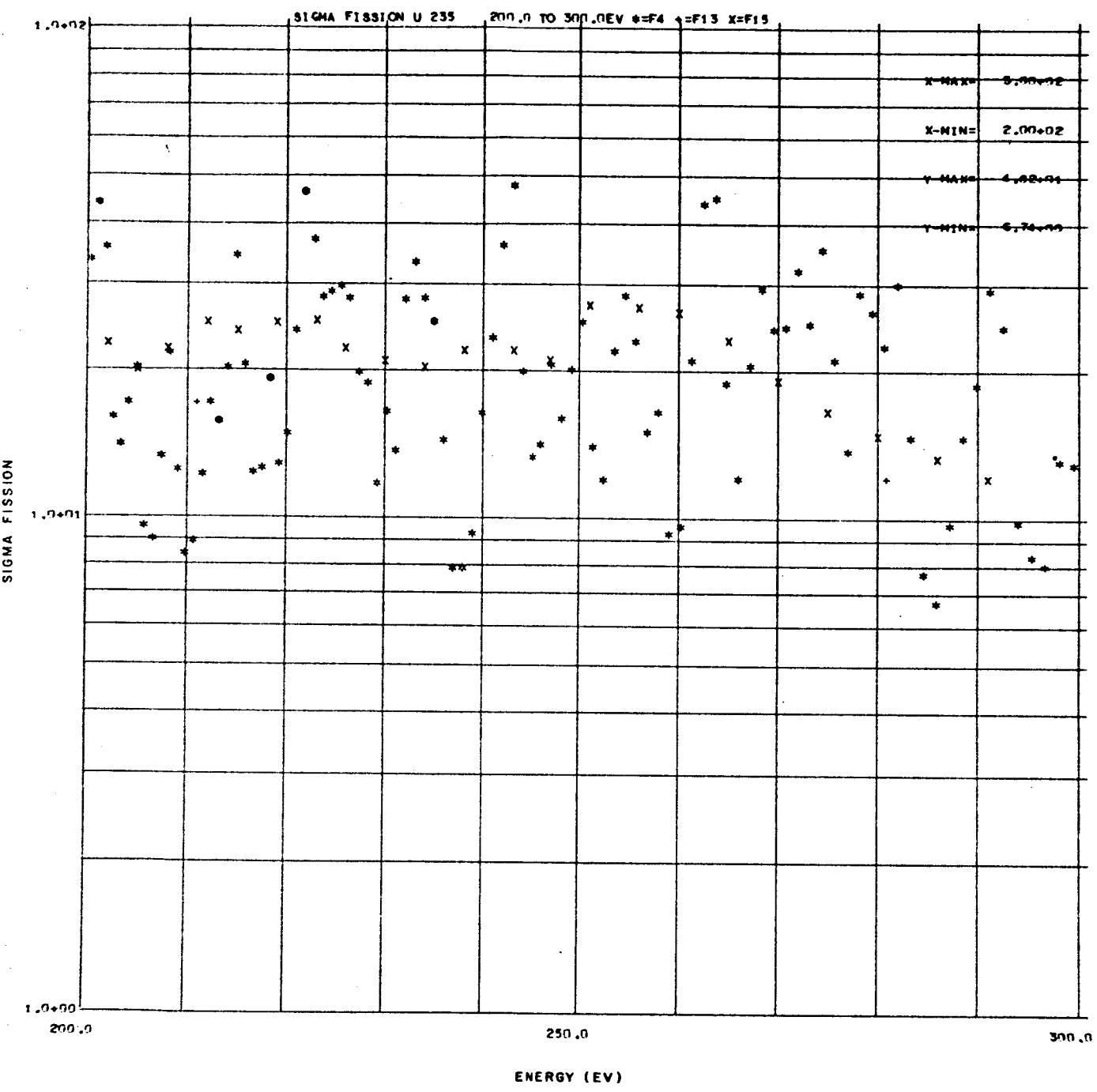


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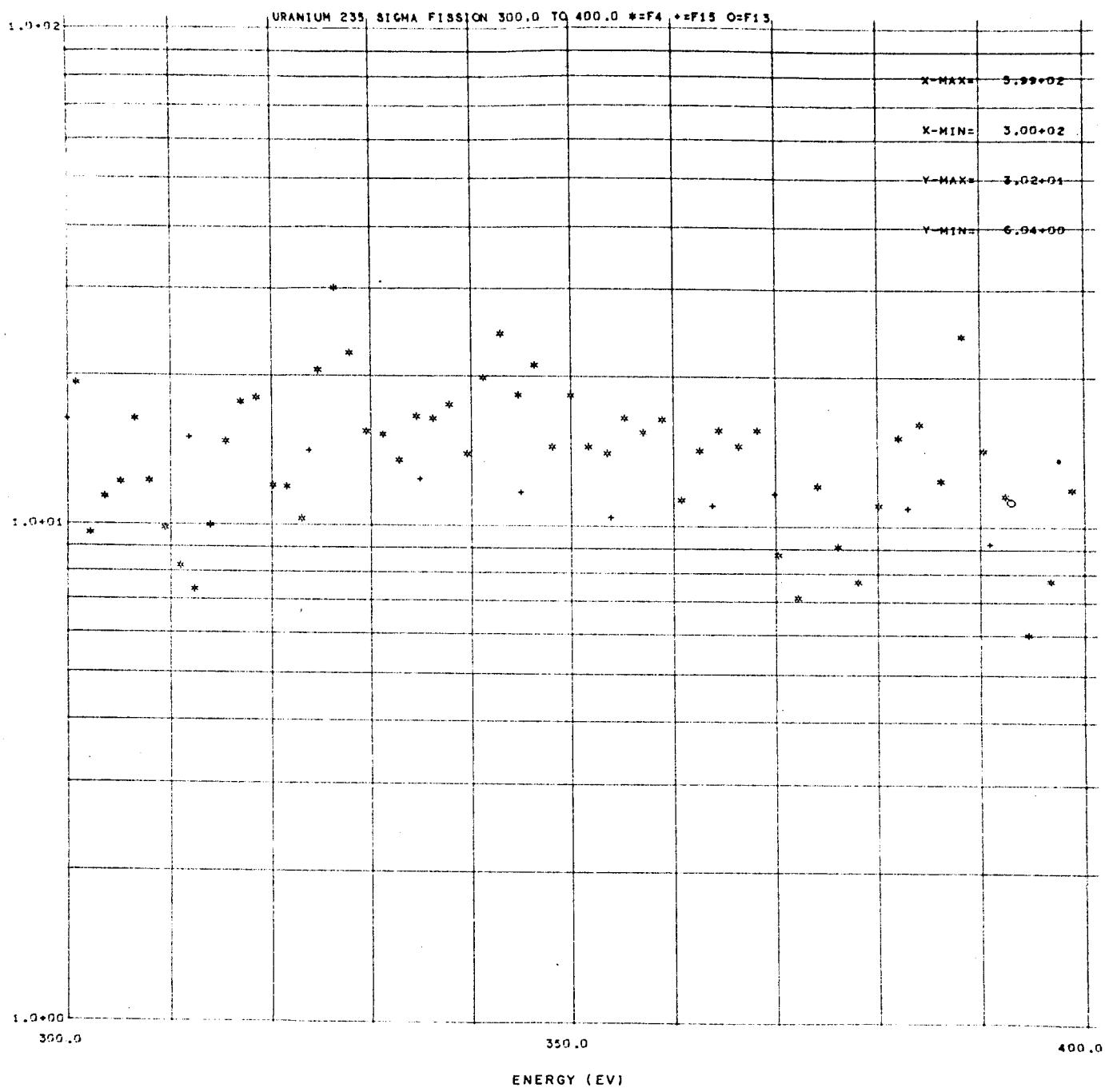


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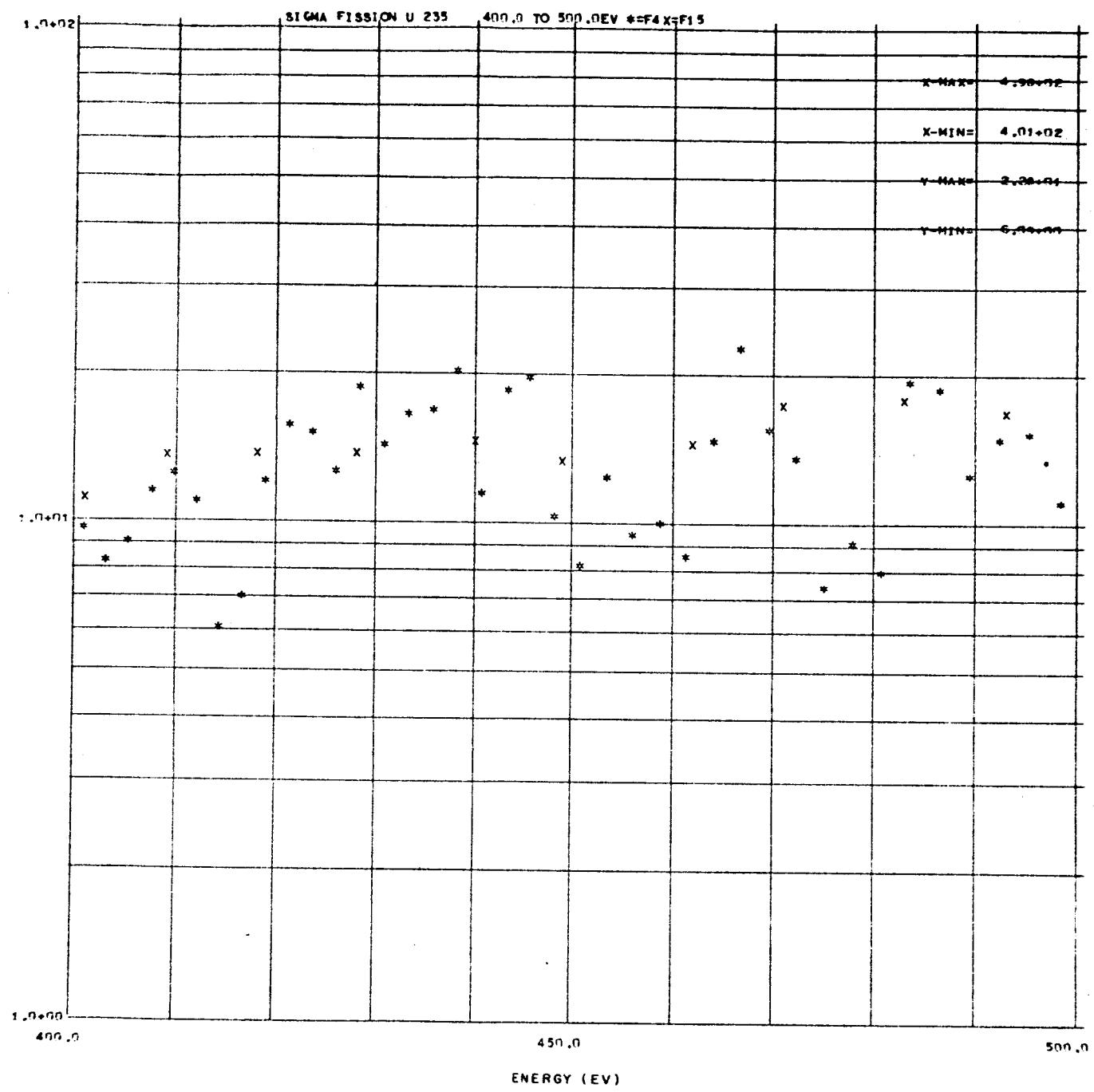


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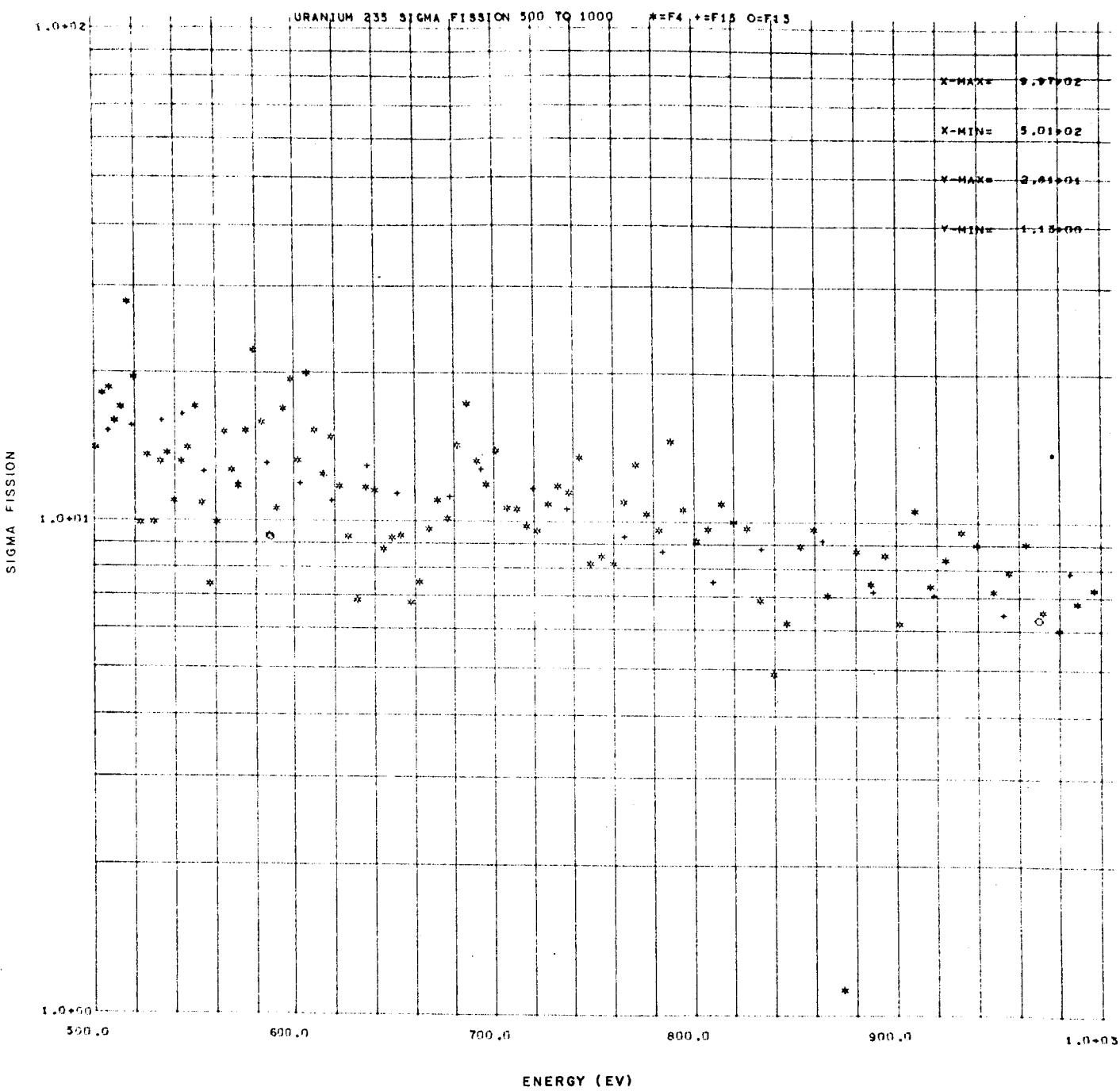


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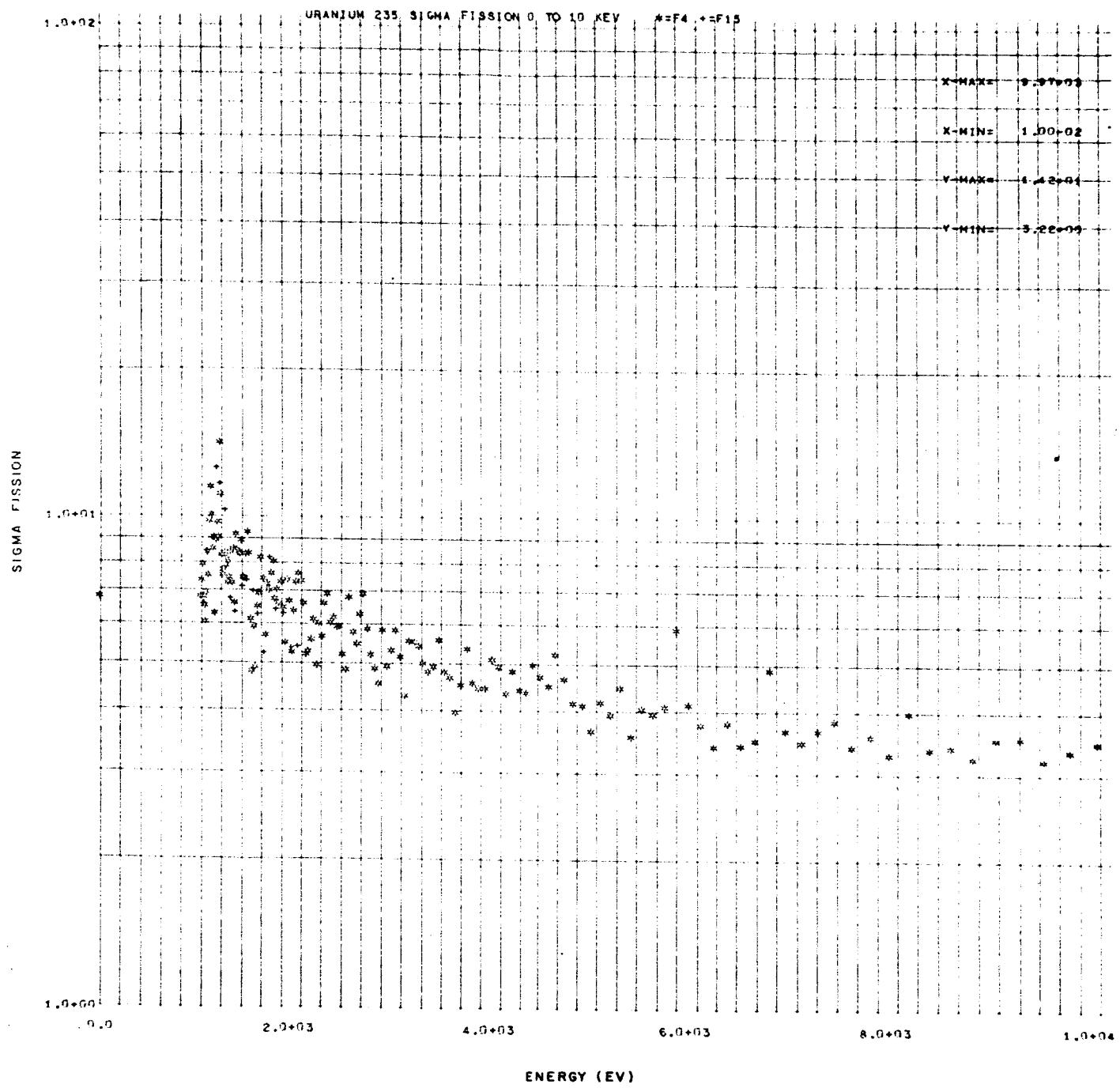


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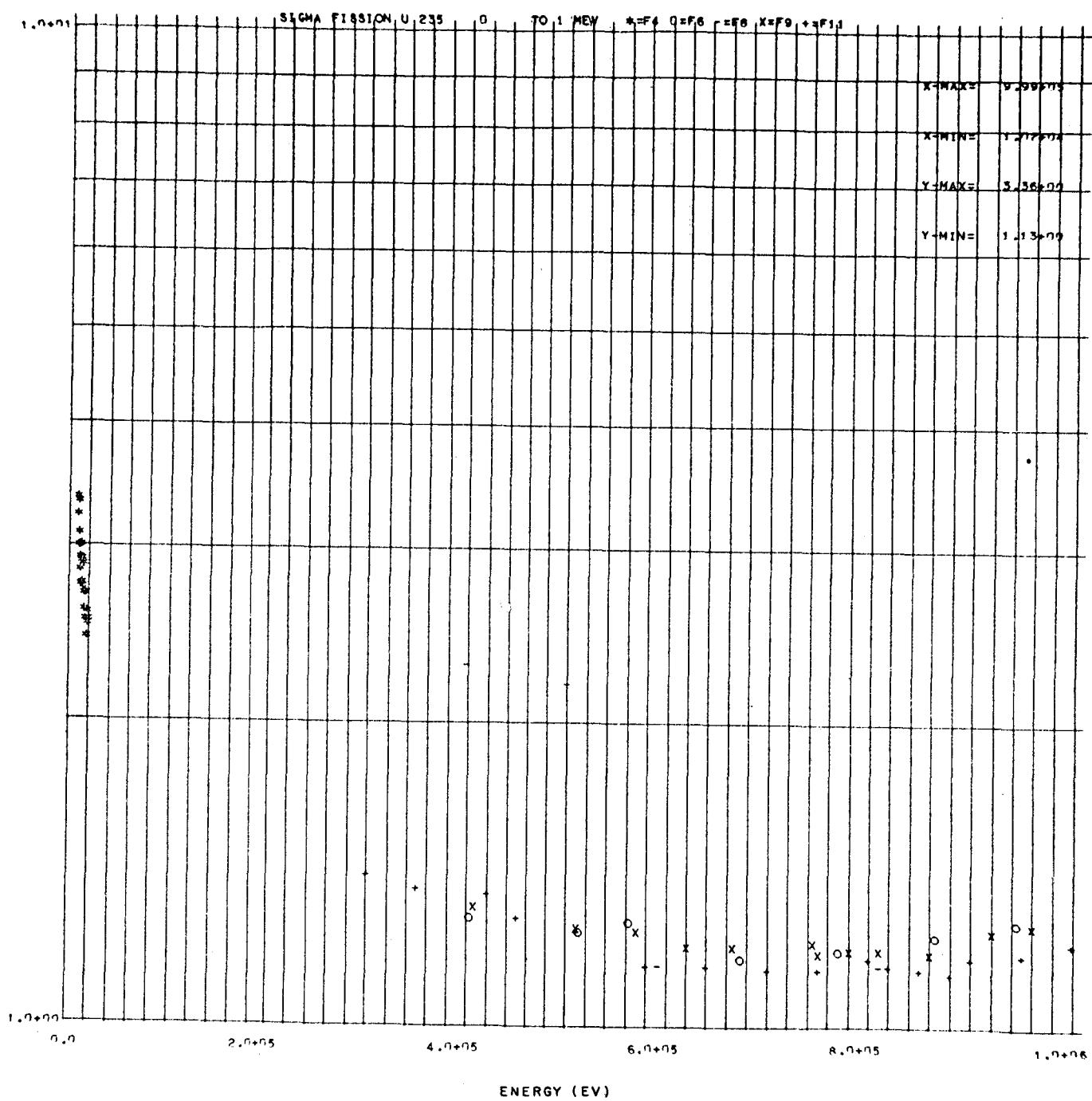


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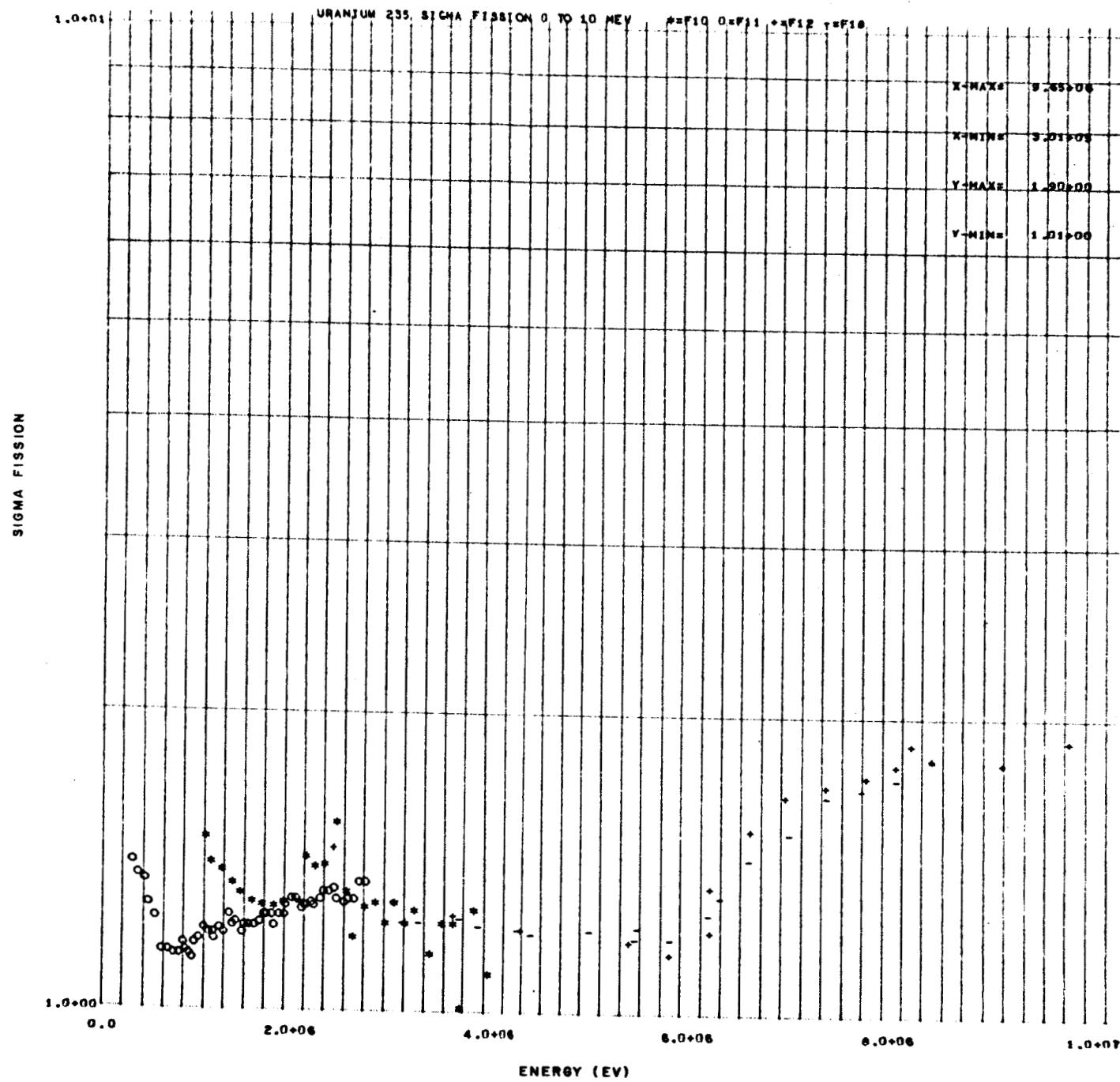


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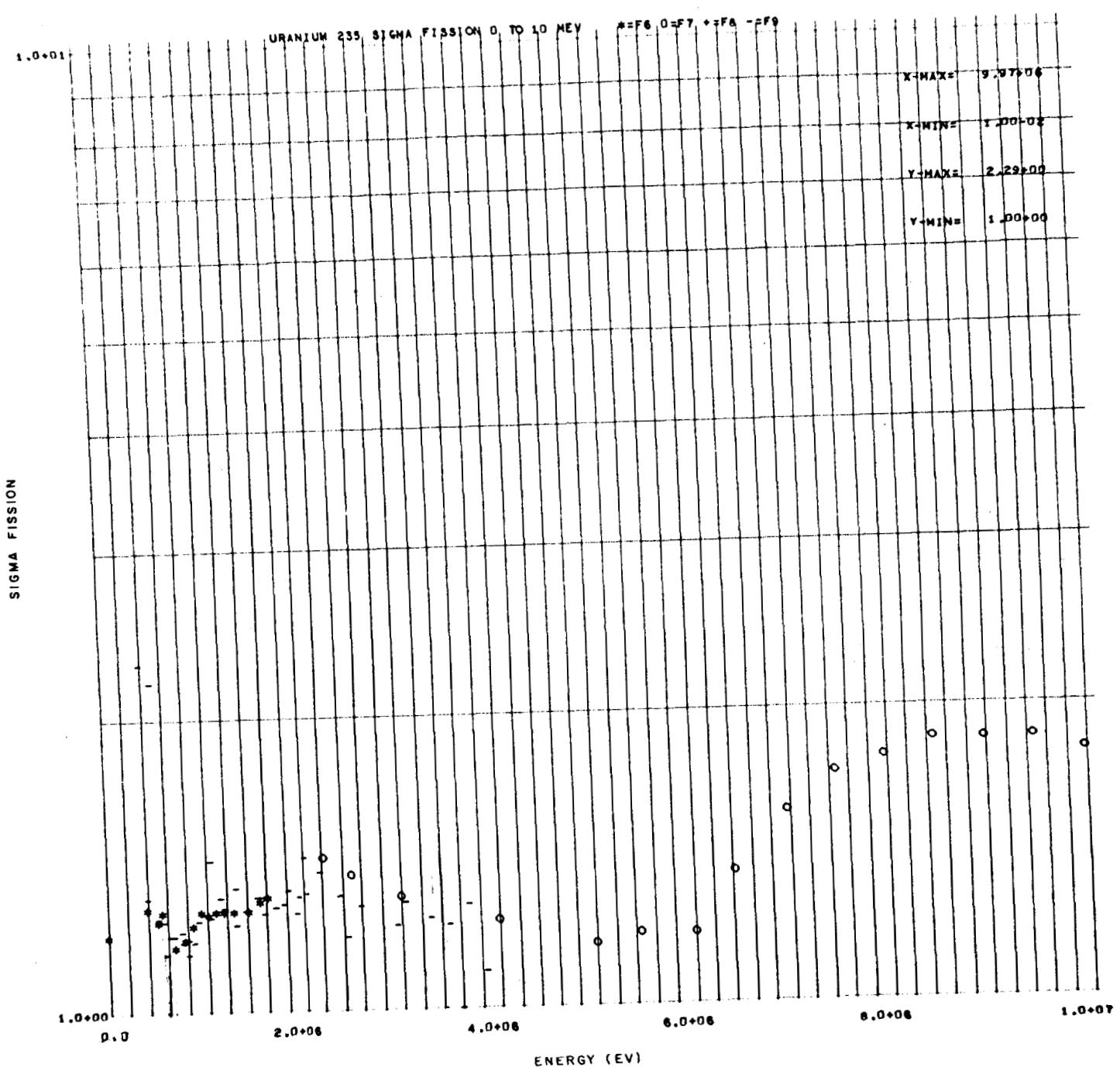


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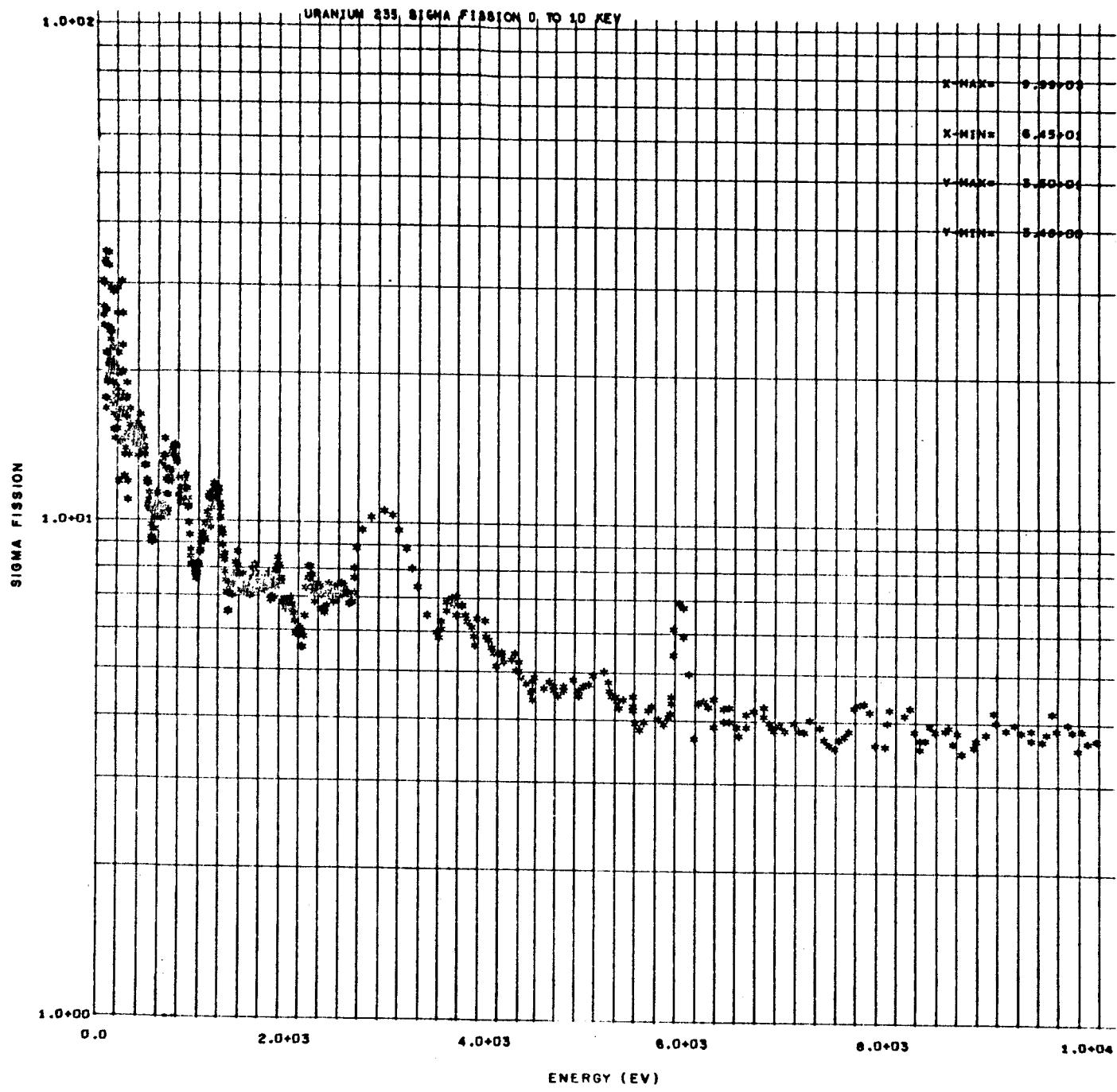


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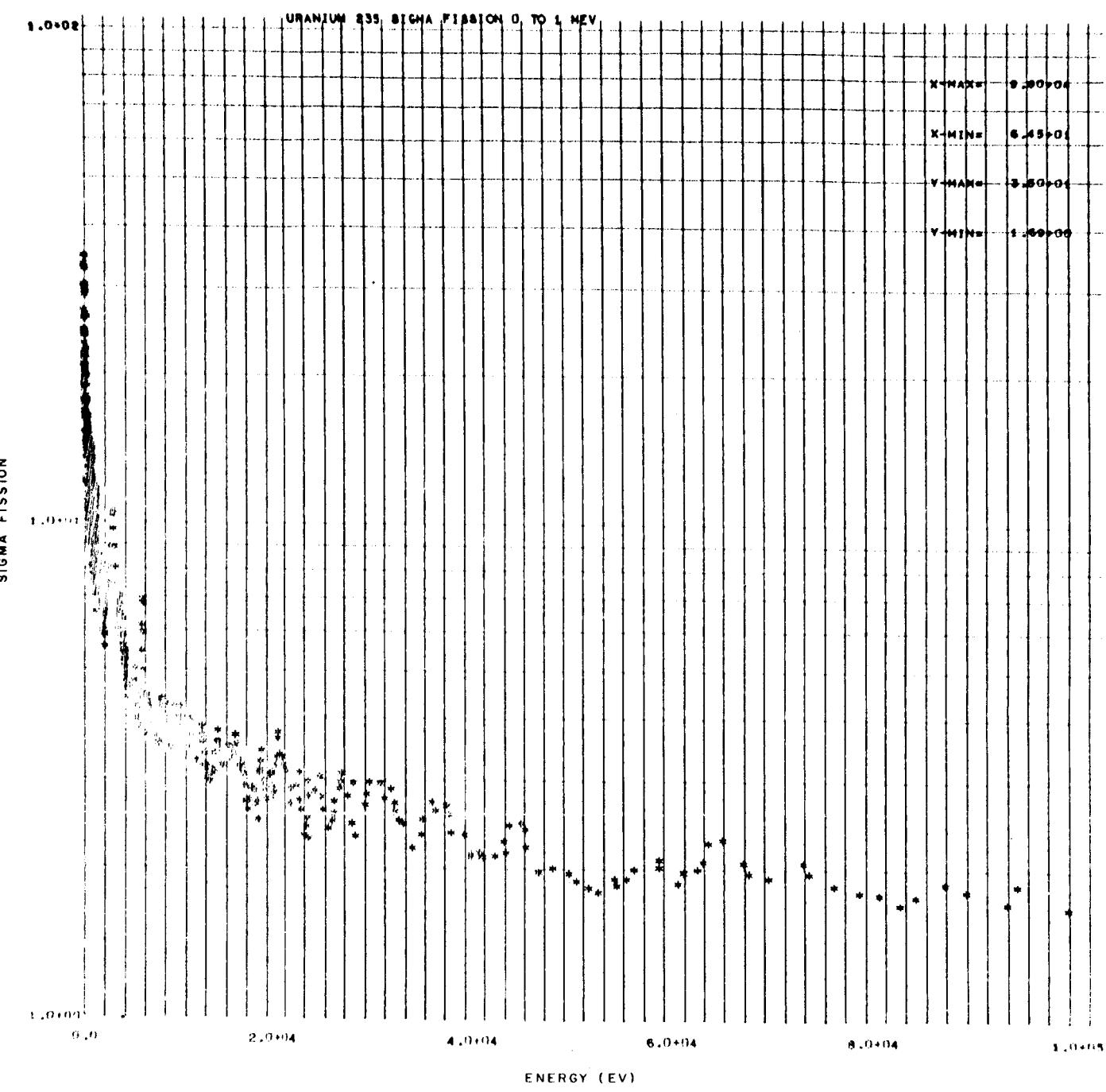


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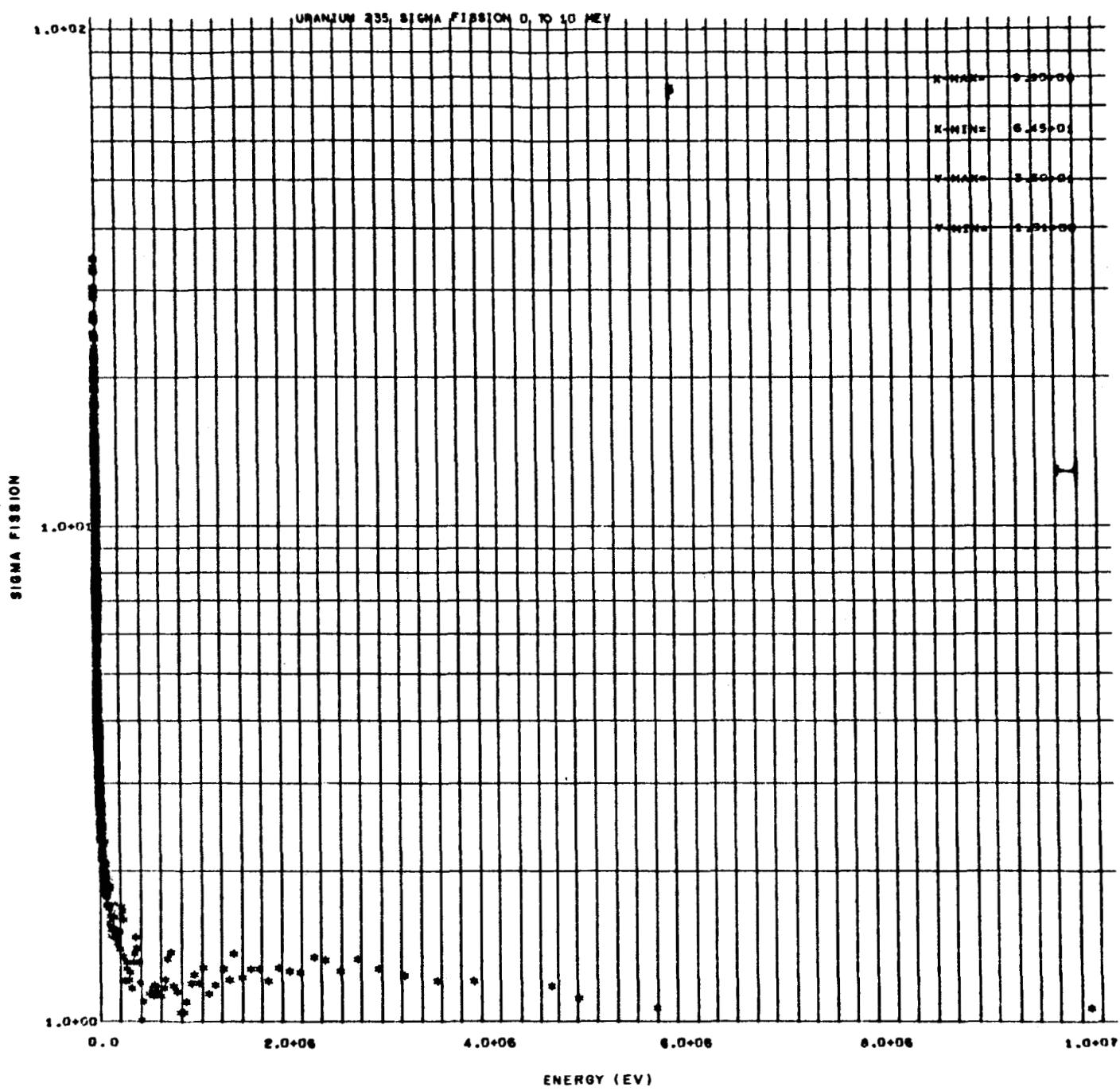


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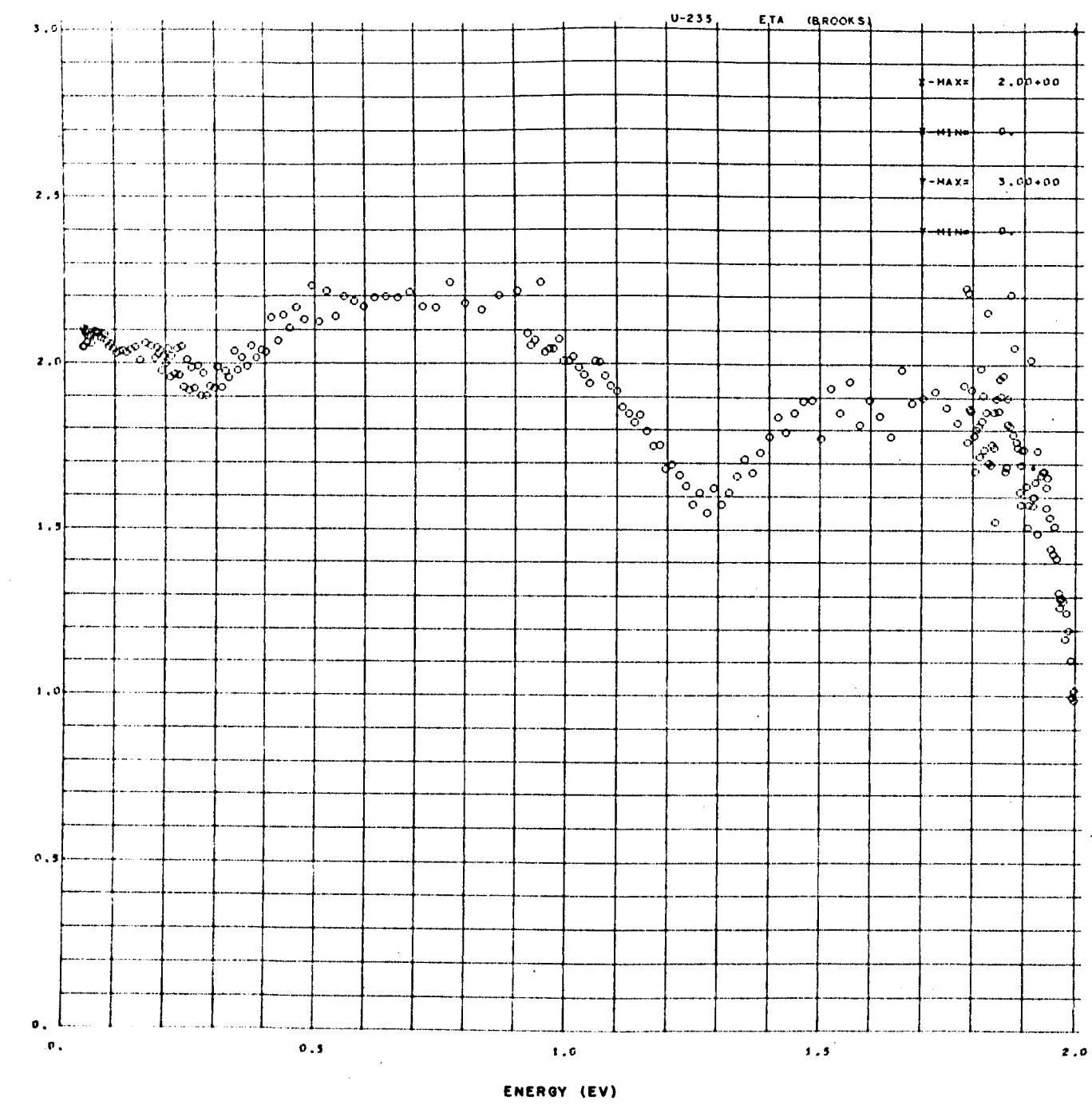


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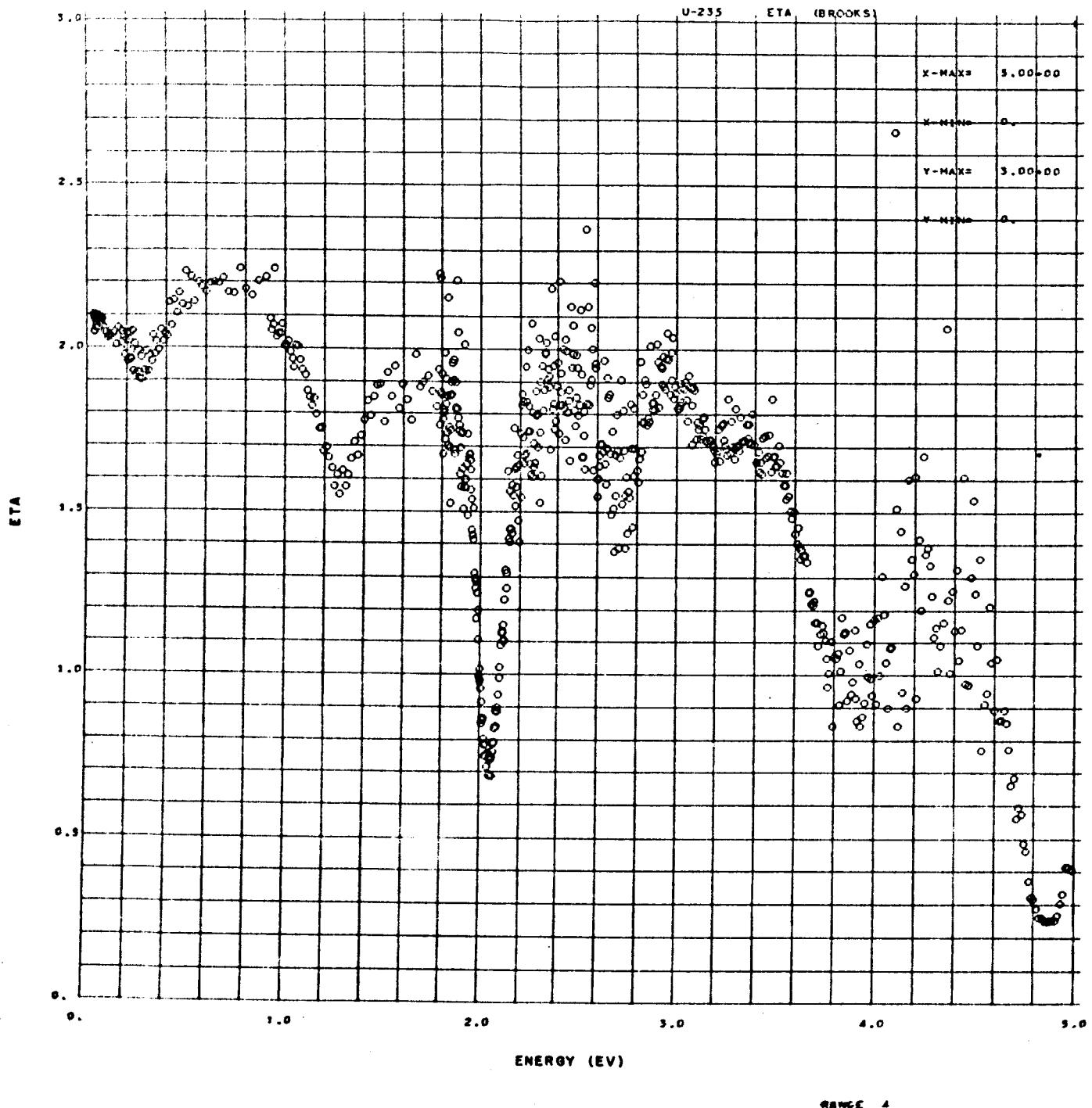


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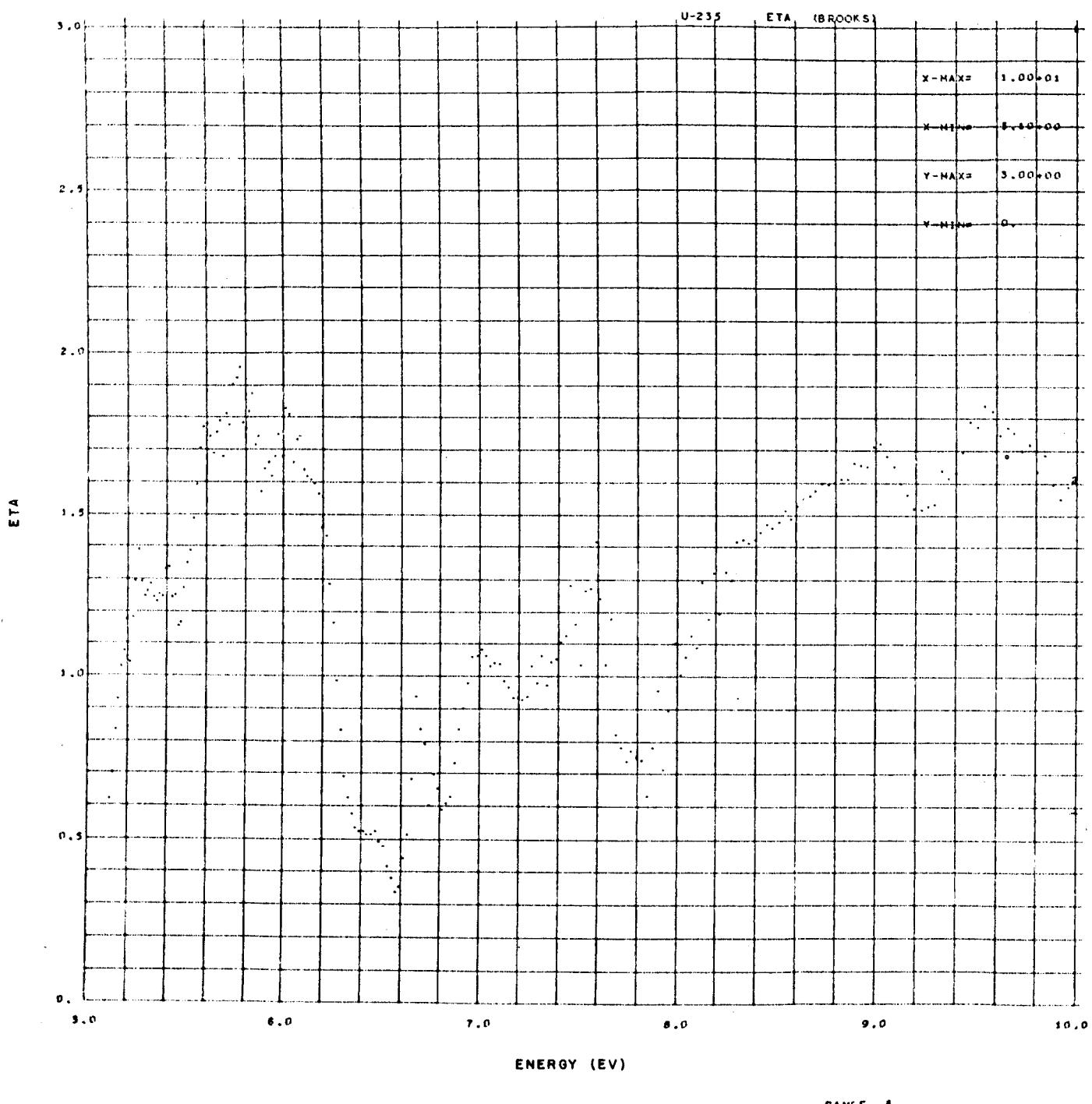


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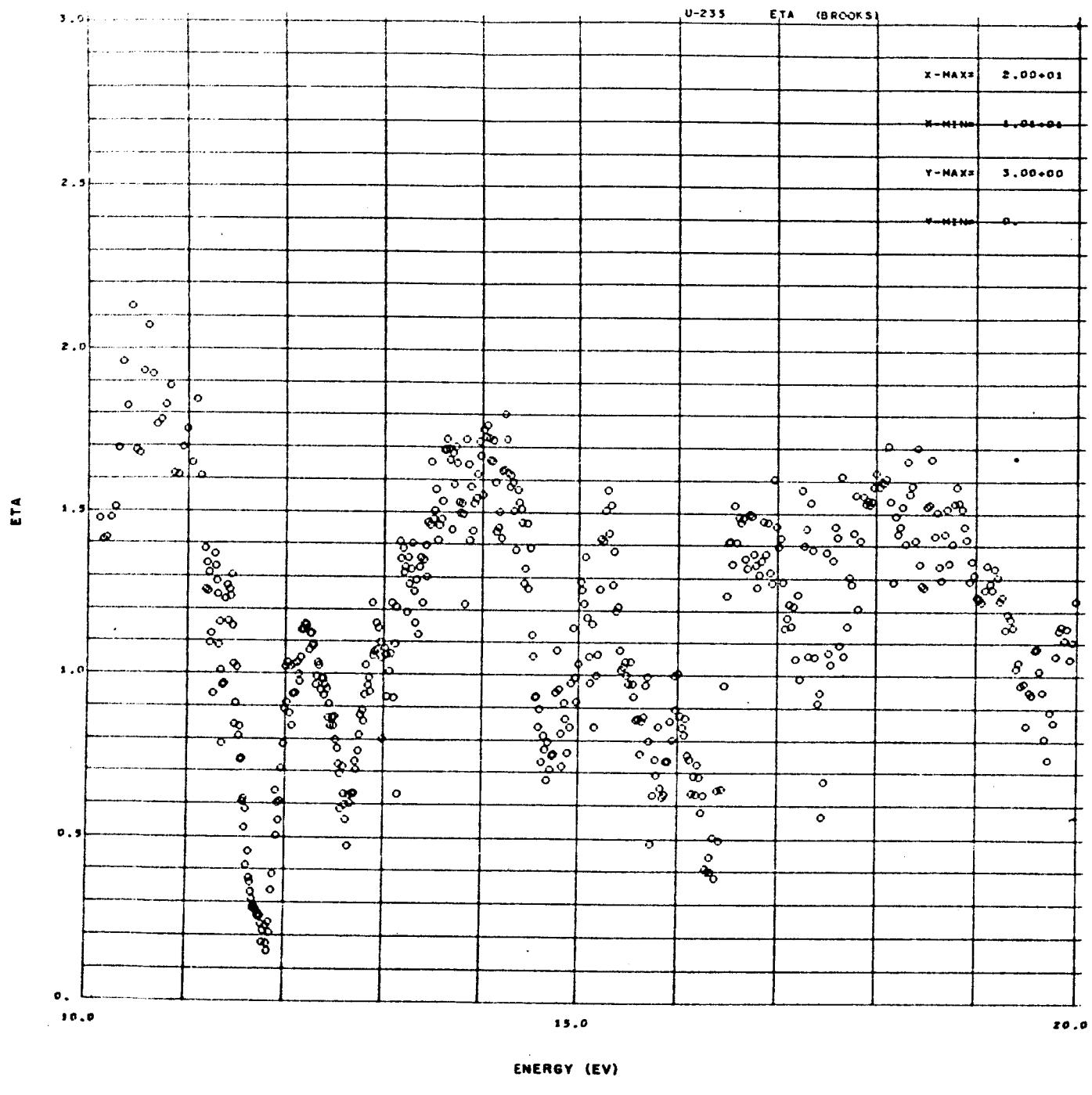


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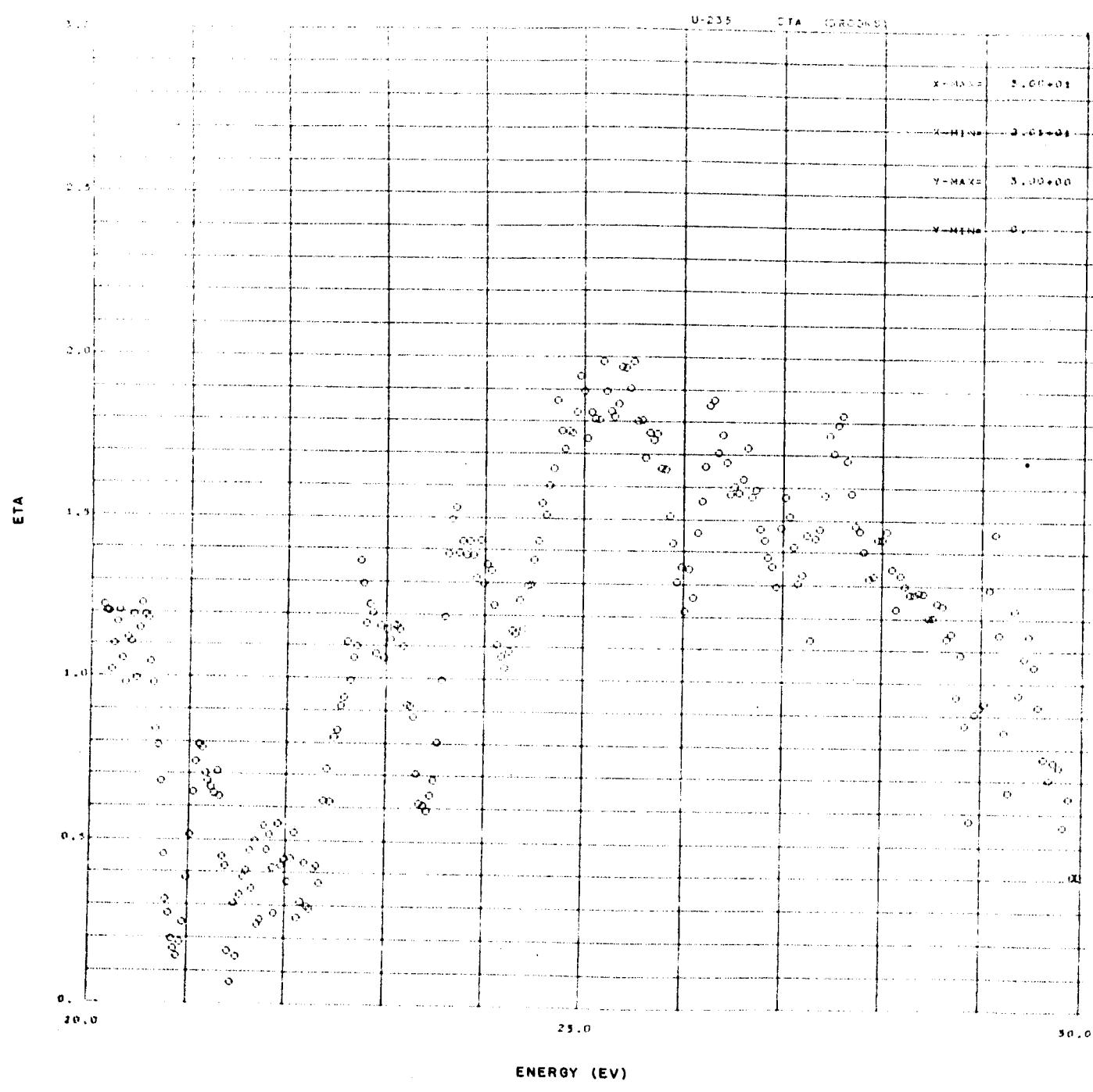


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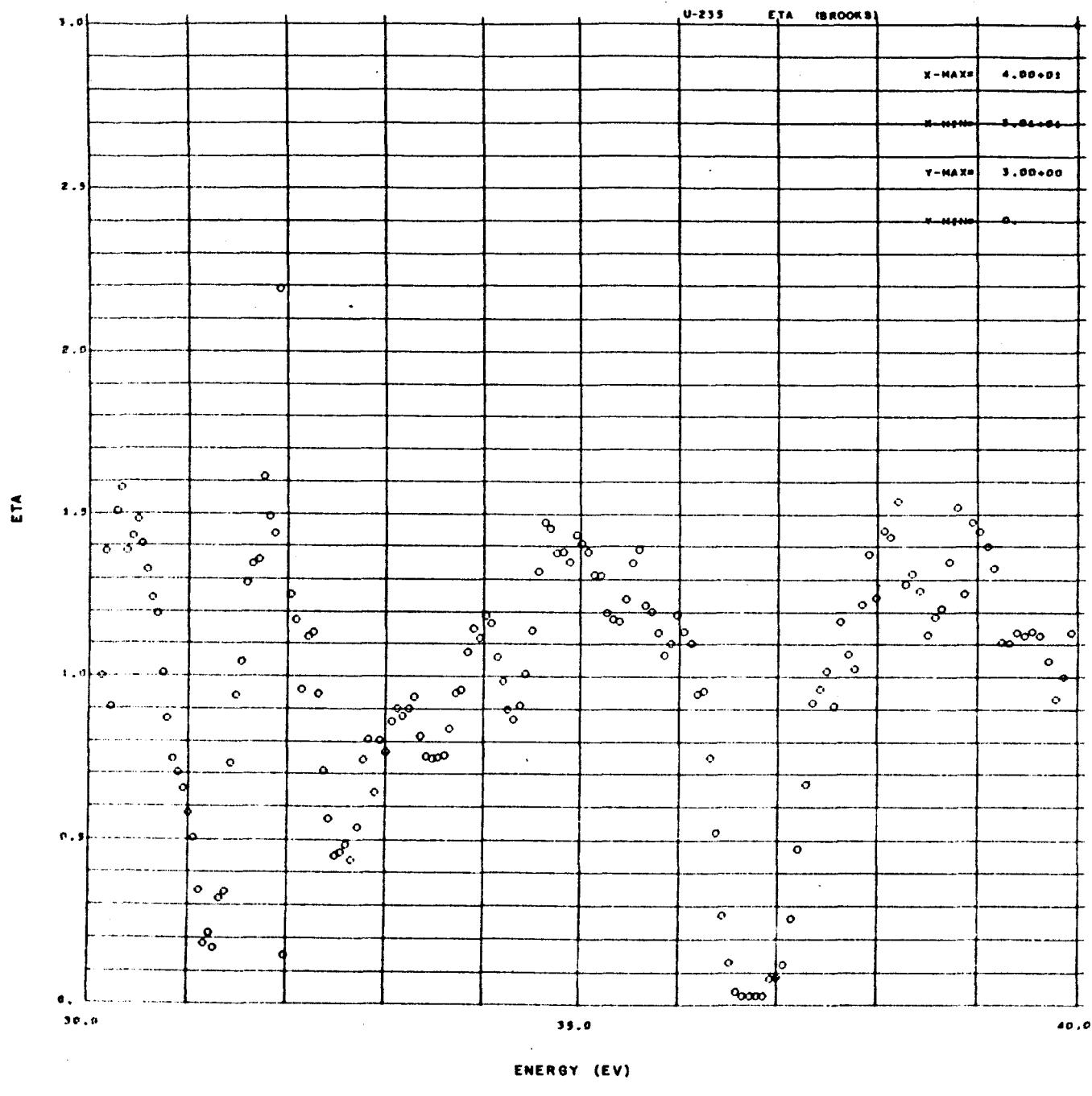


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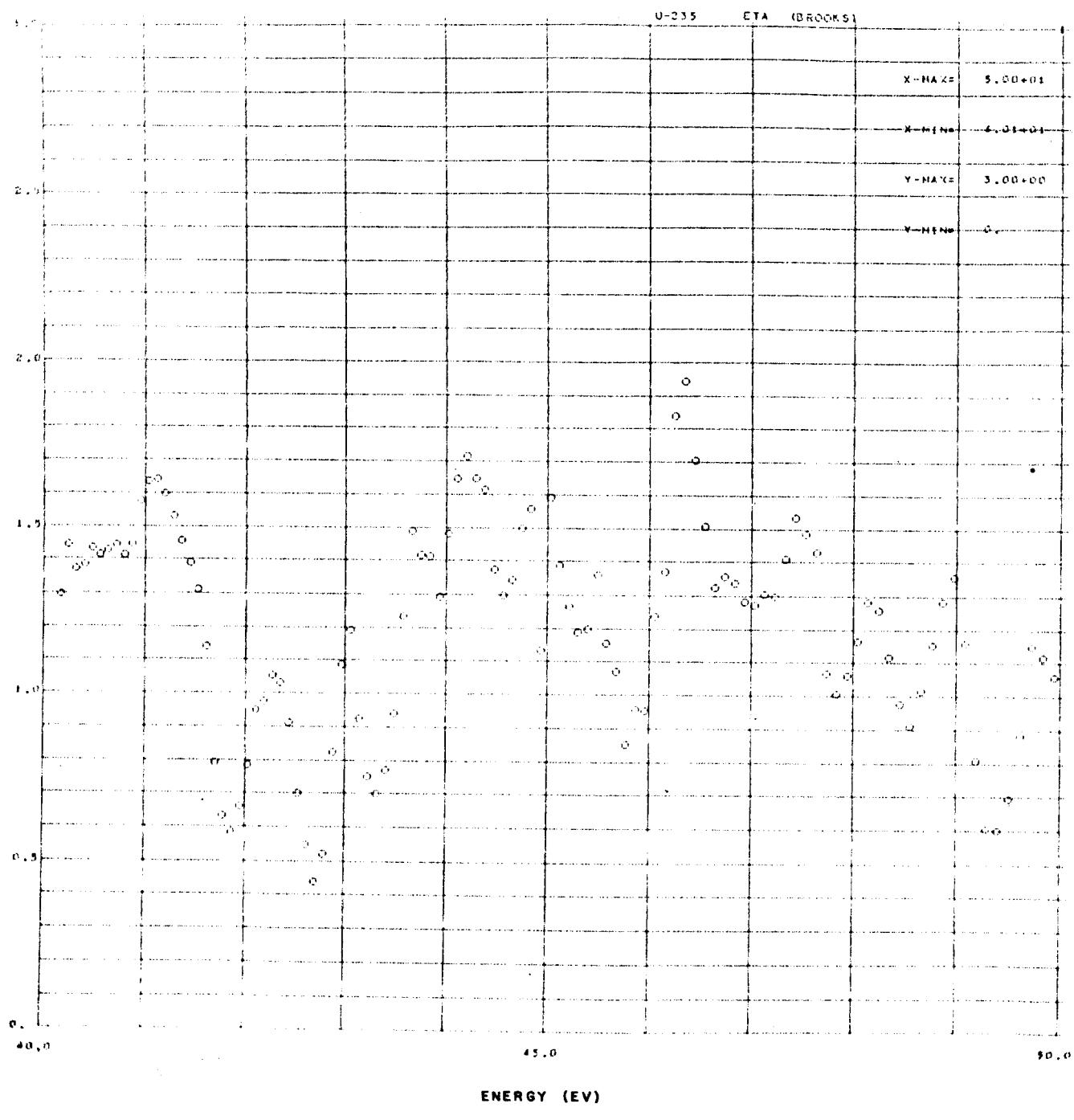


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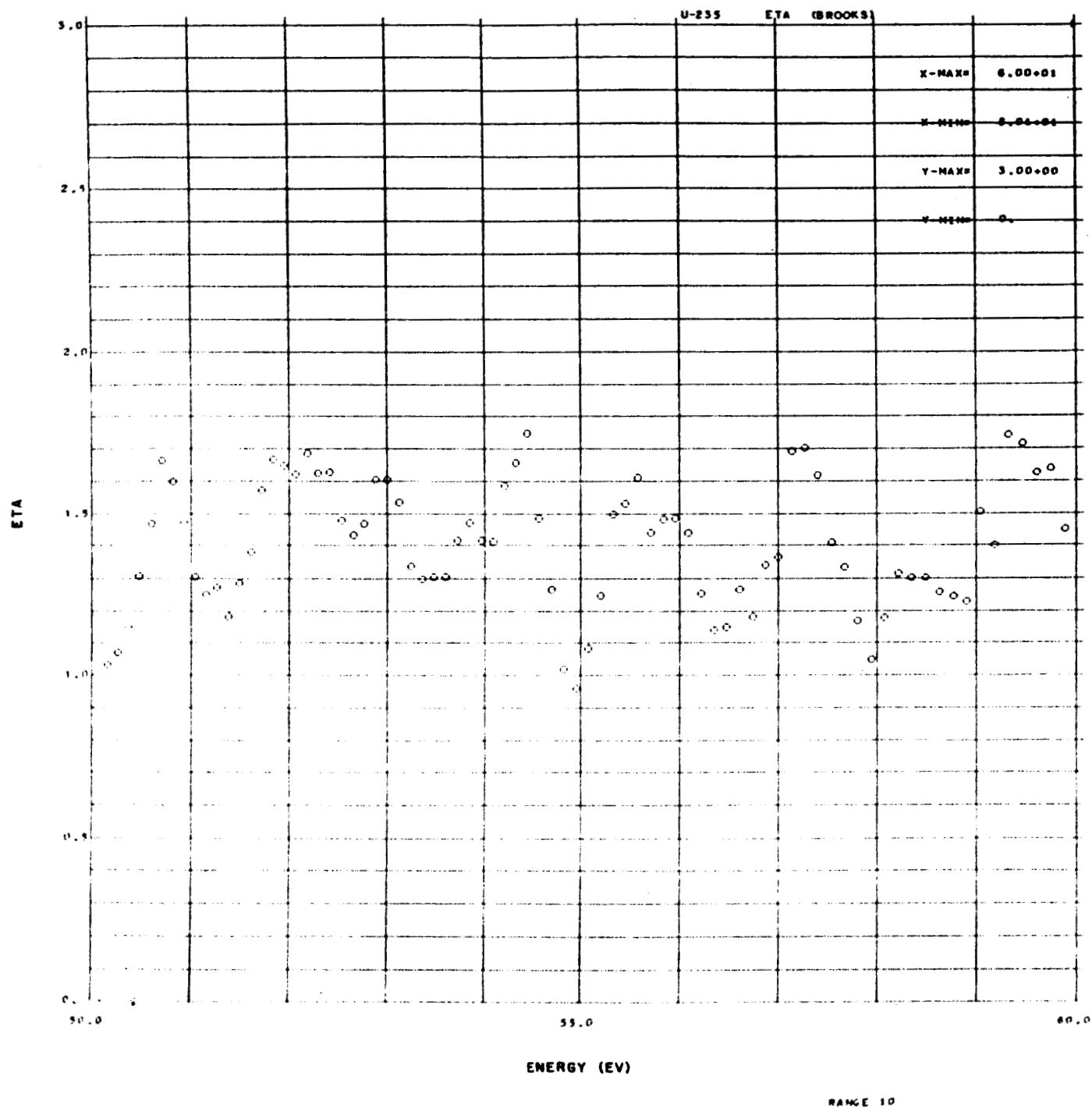


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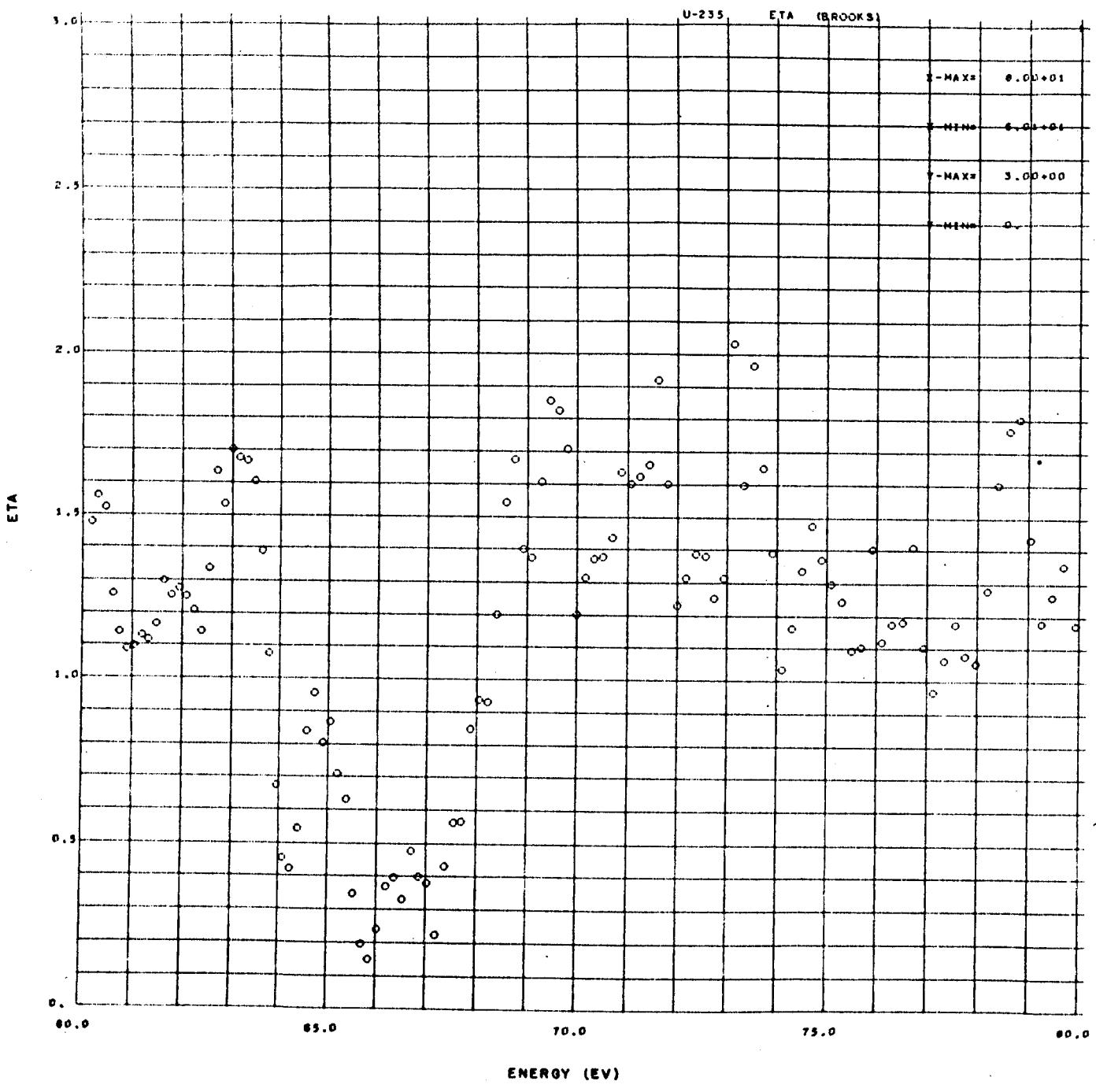


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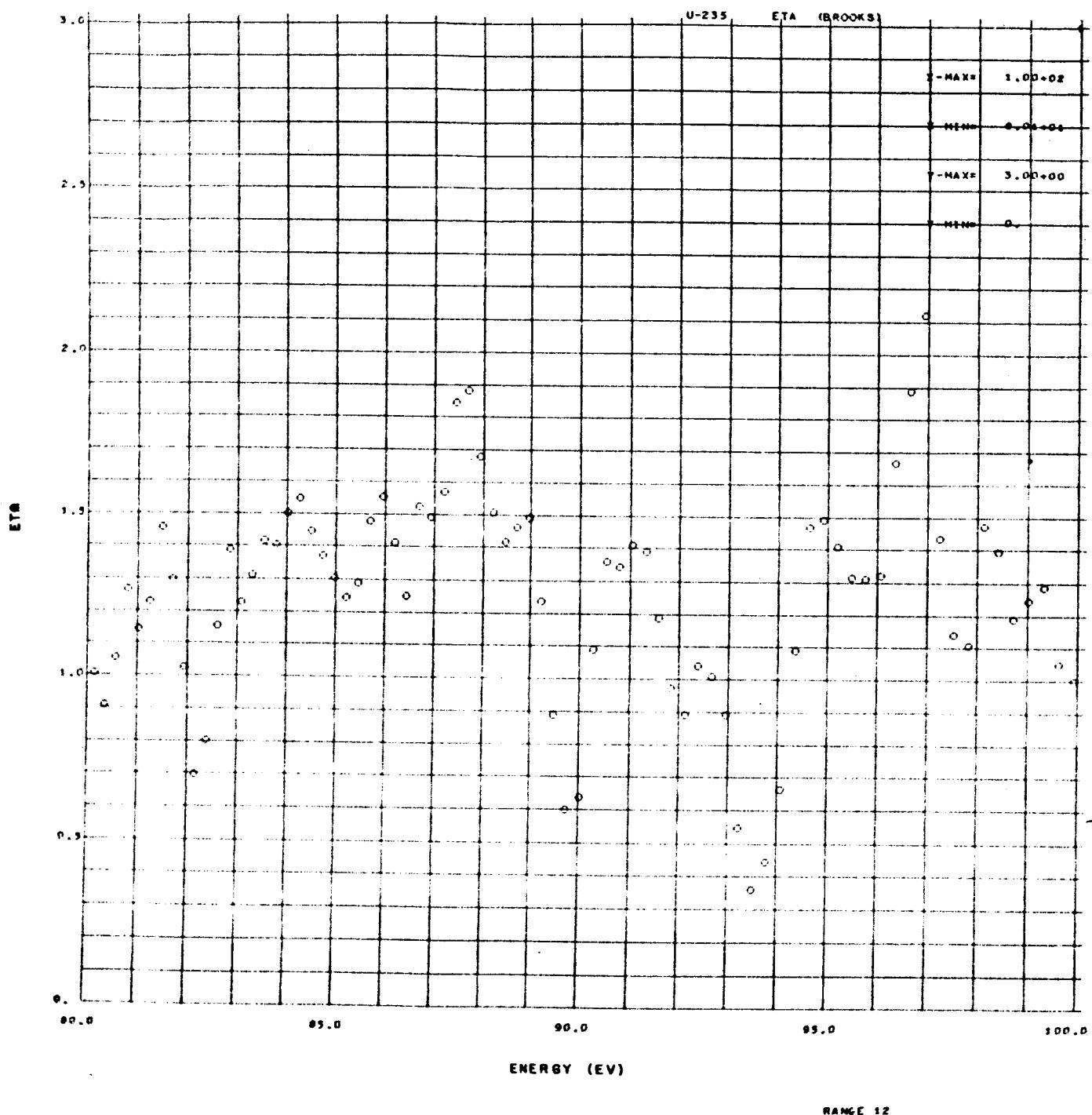
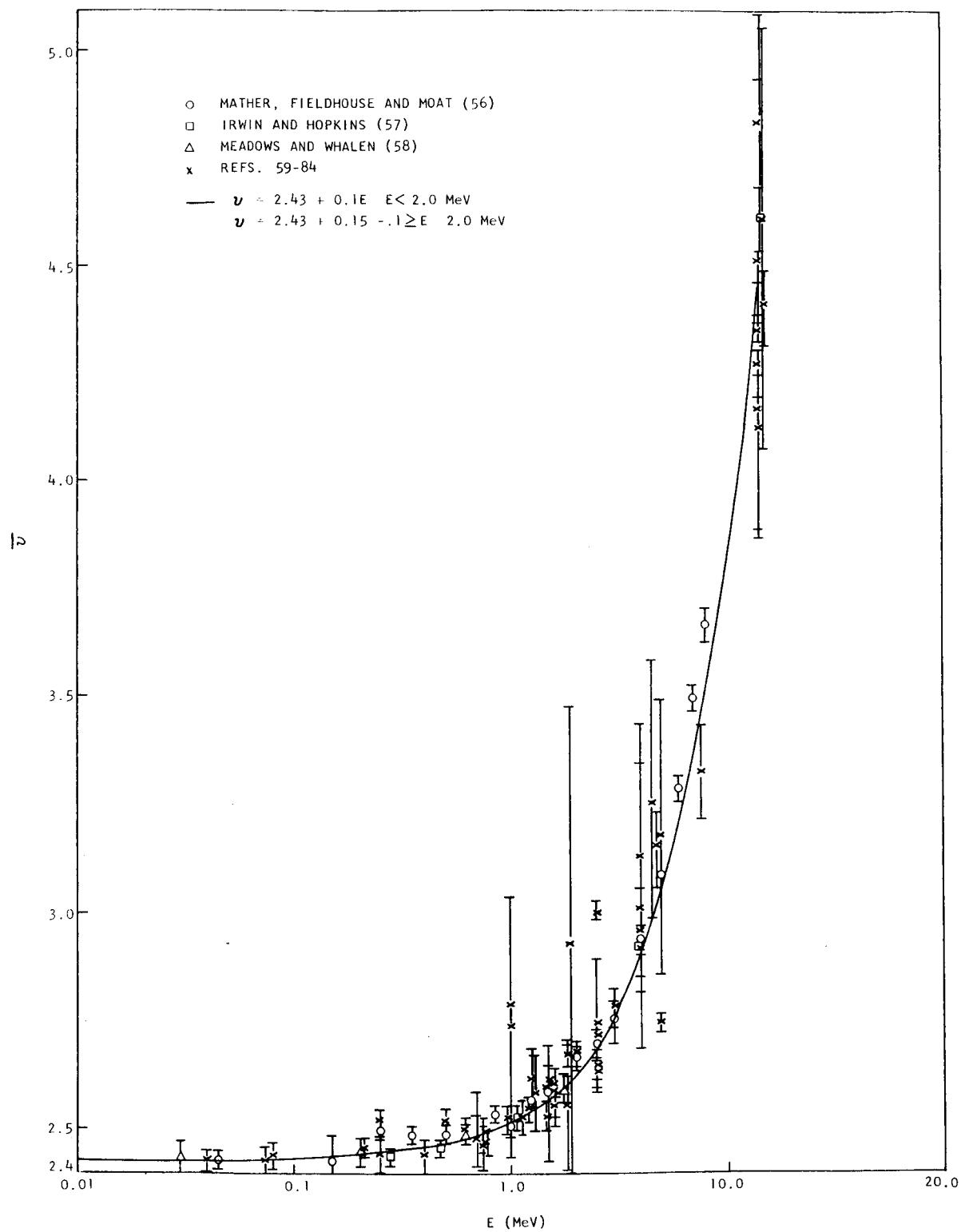


Figure 60

Fig. 61 -- Variation of \bar{v} with energy

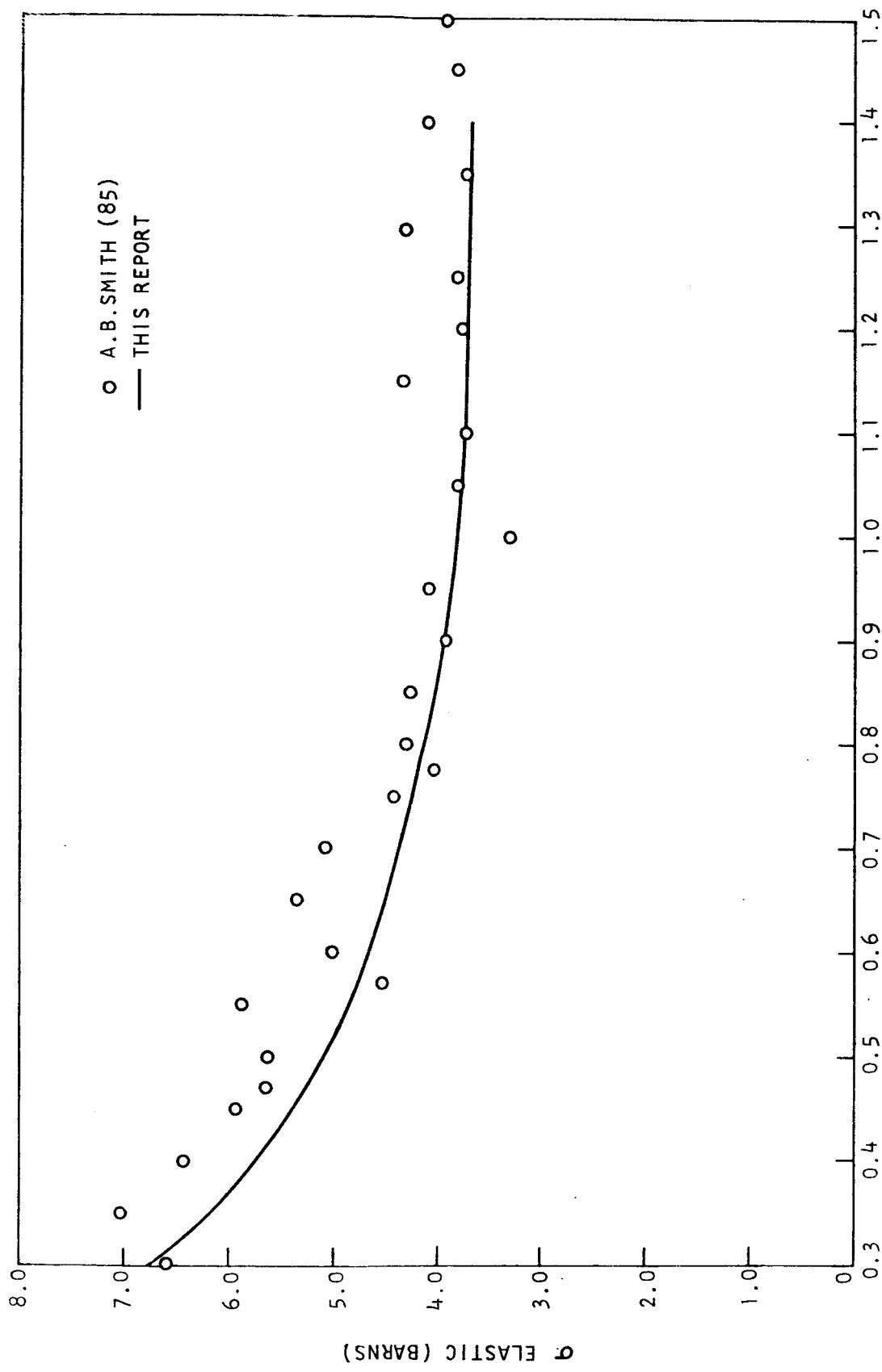


Fig. 62 -- Elastic scattering cross section of U^{235}

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ERRATA

NASA CR-54263

(GA-5944)

NEUTRON CROSS SECTIONS FOR U²³⁵

by

G. D. Joanou and M. K. Drake

December 10, 1964

The following errata should be noted in Report NASA CR-54263
(GA-5944):

Title Page--

Change the Technical Manager's identification to read

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NASA Lewis Research Center
Cleveland, Ohio
Nuclear Reactor Division
D. Bogart

Page DL-1--

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